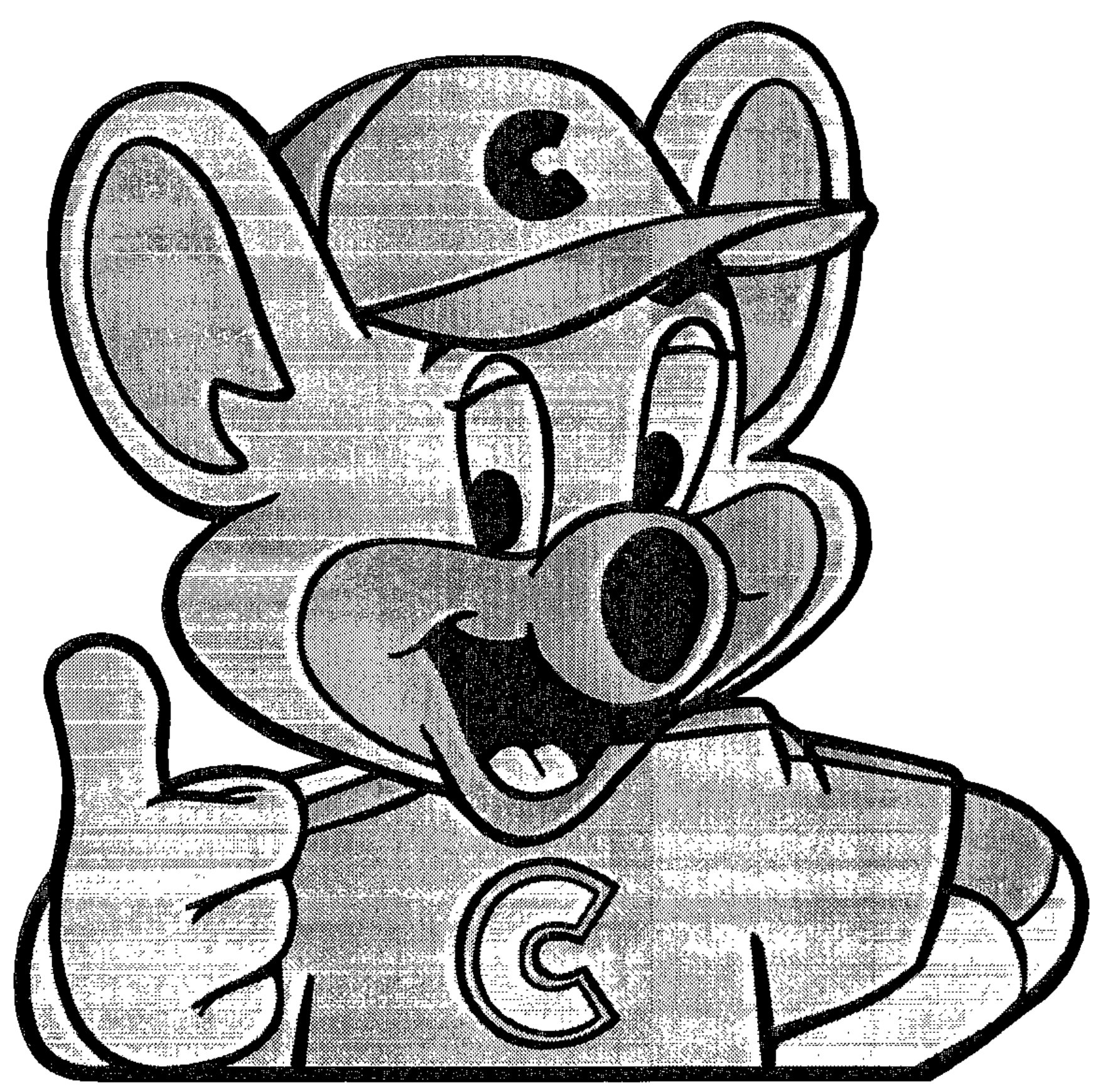
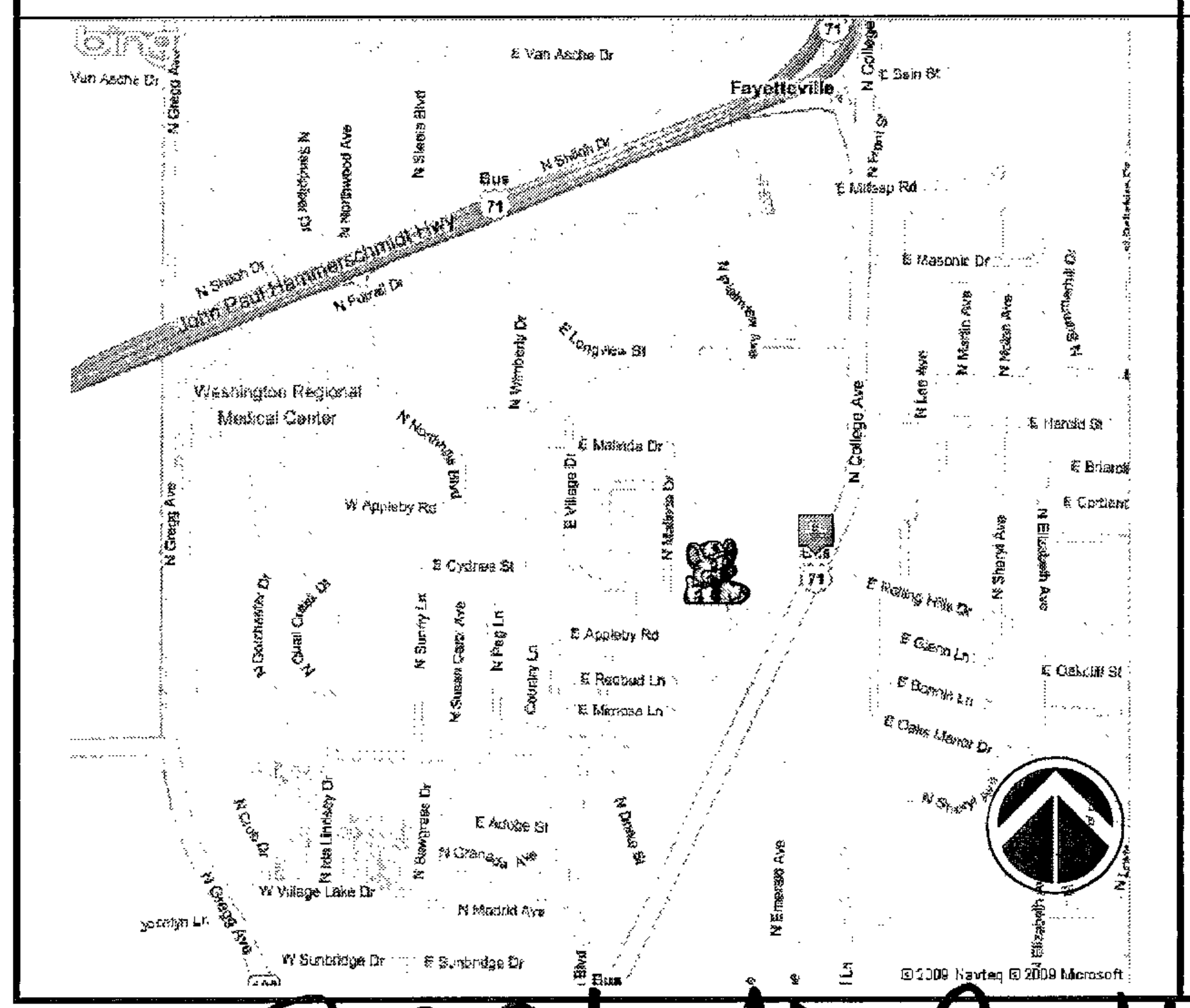


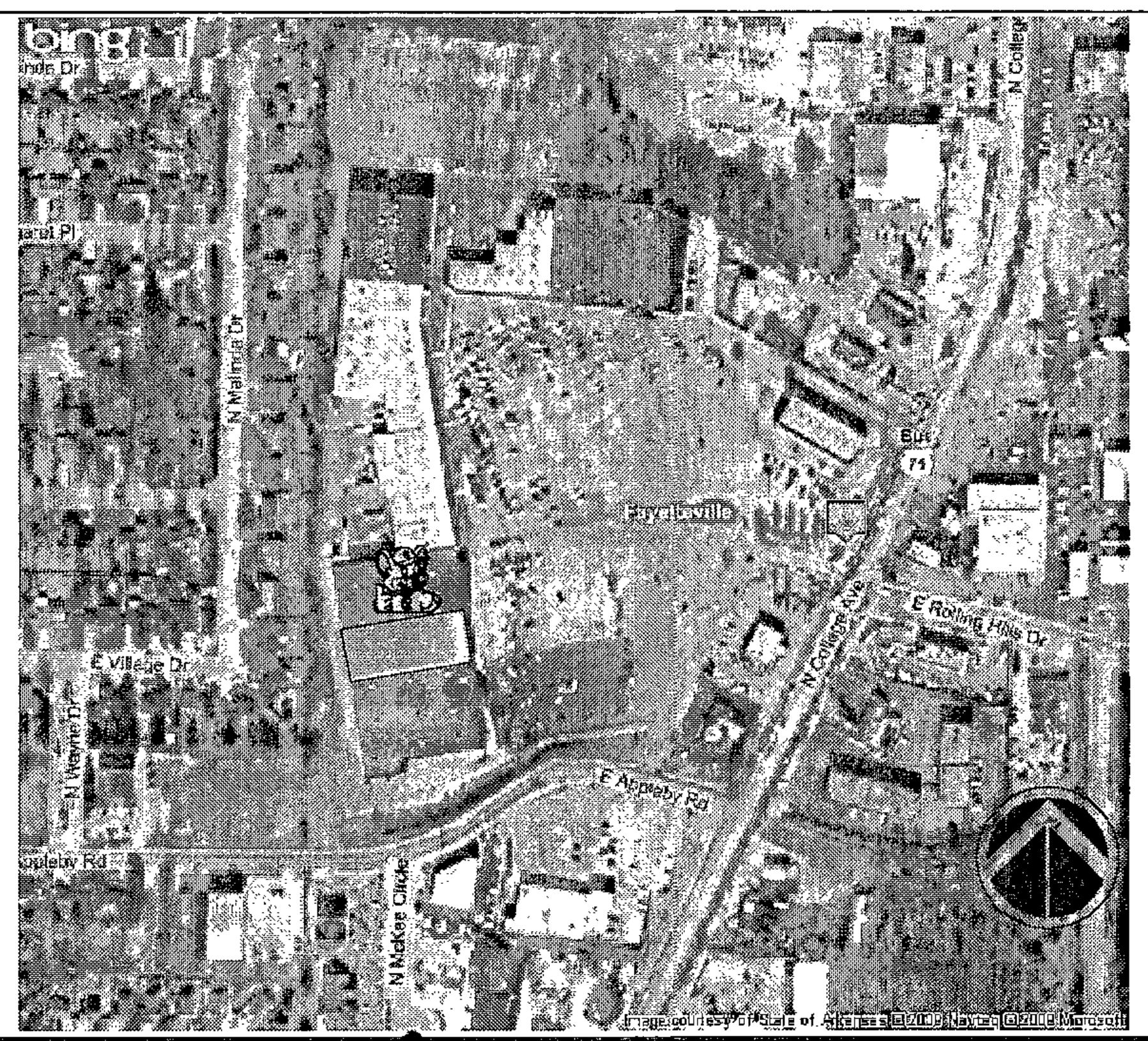
CHUCKECHEESE'S

STORE #: 312
3001 COLLEGE AVE.
FAYETTEVILLE, AR. 72703

SITE LOCATION MAP


bing
Fayetteville
John Paul Hammerschmidt Hwy
Washington Regional Medical Center
N College Ave
E Millsap Rd
E Joyce Blvd
W Appleby Rd
N Gregg Ave
© 2009 Navteq © 2009 Microsoft

PROJECT VICINITY MAP



CODE SUMMARY

ZONING:	YEAR ORDINANCE - PROJECT SPECIFIC
DESIGNATION:	XX - PROJECT SPECIFIC
USE:	RESTAURANT
PARKING REQUIRED:	141 SPACES
PARKING PROVIDED:	159 SPACES
BUILDING CODE:	2006 ARKANSAS BUILDING CODE
OCCUPANCY CLASS:	A-2 (RESTAURANT)
CONSTRUCTION TYPE:	V-B (NON-RATED)
ALLOWABLE AREA:	BASE ALLOWABLE N/A
	ALLOWABLE W/ PERMITTED INCREASES: N/A
BUILDING AREA:	GROSS AREA: 14,109 S.F. / NET AREA: 14,000 S.F.
SEATING CAPACITY:	478 SEATS
EGRESS LOAD:	746 OCCUPANTS
EXIT:	REQUIRED: 112" TOTAL
	PROVIDED: 120" TOTAL
MECHANICAL:	2006 ARKANSAS MECHANICAL CODE
ELECTRICAL:	2008 NATIONAL ELECTRICAL CODE
PLUMBING:	2006 ARKANSAS PLUMBING CODE
HEALTH:	STATE OF ARKANSAS
FIRE:	2007 ARKANSAS FIRE PREVENTION CODE
ACCESSIBILITY:	2003 ICC/ANSI A117.1
ENERGY:	2004 ARKANSAS ENERGY CODE
FIRE SPRINKLER:	NFPA 13
FIRE ALARM:	NFPA 72

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS IN AFFECT AT THE TIME OF BIDDING AND CONSTRUCTION.

PROJECT TEAM

OWNER	ARCHITECT
CEC ENTERTAINMENT, INC.	ARCVISION
4441 WEST AIRPORT FREEWAY	1850 CRAIG ROAD STE. 275
IRVING, TEXAS 75062	ST. LOUIS, MO. 63146
PH: (972) 258-8507	PH: (314)-415-2400
FAX: (972) 258-8545	FAX: (314)-415-2300
E-MAIL: JBLAIDO@CECENTERTAINMENT.COM	E-MAIL: WWW.ARCV.COM
CONTACT: Mr. JEREMY BLAIDO	CONTACT: FRED GOGLIA

PROJECT COORDINATOR	STRUCTURAL ENGINEER
ARCVISION	M-ENGINEERING INC.
150 WESTPARK WAY SUITE 275	700 BROOKSEDGE BOULEVARD
EULESS, TX. 76040	WESTERVILLE, OHIO 43081
PH: (817) 391-3970	PH: (312)494-1140
FAX: (817) 391-3975	FAX: (614)818-1931
E-MAIL: JJAMES@ARCV.COM	E-MAIL: WWW.M.CORPORATIONS.COM
CONTACT: JADEY JAMES	CONTACT: ASHIF PANAKKAT, E.I.

M.E.P. ENGINEER	GEOTECHNICAL ENGINEER
ARCVISION	
1850 CRAIG ROAD	
ST. LOUIS, MO. 63146	
PH: (314)-415-2400	
FAX: (314)-415-2300	
E-MAIL: A.RICHARDSON@ARCV.COM	
CONTACT: ANTHONY RICHARDSON	

LANDSCAPE DESIGNER	CIVIL ENGINEER

CEC SUPPLIER LIST

SIGN COMPANY	CARPET - SUPPLIER
STARLITE SIGN, LP	MOHAWK CARPET
7923 EAST MCKINNEY	500 TOWN PARK LANE, SUITE 400
DENTON, TX 76208	KENNESAW, GA 30144
CONTACT: DEBBIE STELLAR	CONTACT: ROBERT FISK
PH: (817) 430-8359	PH: (214) 236-0692
E-MAIL: DEBBIE.STELLAR@STARLITESIGN.COM	E-MAIL: ROBERT_FISK@MOHAWKIND.COM

PAINT / STAINS	CARPET - SUPPLIER
SHERWIN WILLIAMS	BLUERIDGE CARPET
2100 LAKESIDE BLVD. SUITE 400	P.O. BOX 507
RICHARDSON, TX 75082	ELLIJAY, GA 30540
CONTACT: JOHN W. GASTON	CONTACT: JOE CARMICHAEL
PH: (214) 553-3940	PH: (214) 695-6898
E-MAIL: JOHNW.GASTON@SHERWIN.COM	E-MAIL: JCARMICHAEL@BLUERIDGECARPET.COM

DOORS	TILE - TOILET ROOM WALLS & FLOORS
VISTA WALL	INTERCERAMIC TILE
803 AIRPORT RD.	2682 FOREST LANE
TERRELL, TX 75160	DALLAS, TX 75234
CONTACT: ERICK LOUCEL	CONTACT: LES GAREY / LORI HANDS
PH: (214) 796-3881	PH: (972) 243-4465 / 4466
E-MAIL: ELOUCEL@VISTAWALL.COM	E-MAIL: LGAREY@INTERCERAMICUSA.COM

CEILING TILE	TILE - QUARRY TILE
ARMSTRONG	AMERICAN TILE
16868 W. 55TH DRIVE	10550 PLANO RD.
GOLDEN, CO 80403	DALLAS, TX 75238
CONTACT: RANDY A. LAY	CONTACT: BILL COKER
PH: (303) 216-2057	PH: (214) 343-5733
E-MAIL: RALAY@ARMSTRONG.COM	E-MAIL: BCOKER@AMERICANTILESUPPLY.COM

TOILET PARTITIONS	MILLWORK
HJC	MIDWEST CABINET
310 SOUTHWEST 24TH STREET	1674 INDUSTRIAL AVE.
BENTONVILLE, AR 72712	OTTAWA, KS 66067
CONTACT: DAVID LIGHTFOOT	CONTACT: SUSAN EICHENBERGER
PH: (479) 756-8989	PH: (785) 242-8181 EXT.14
E-MAIL: DAVID.LIGHTFOOT@HJCINC.COM	E-MAIL: SEICHENBERGER@MIDWESTCABINET.COM

HARDWARE	CORNER GUARDS
UNIVERSAL MANUFACTURING	WALL PROTEX
5366 CRESTVIEW RD.	3750 OHIO AVE
MEMPHIS, TN 38134	ST. CHARLES, IL 60174
CONTACT: THERESA LAND	PH: (877) 880-8115
PH: (901) 458-5881	
E-MAIL: UMCO@UMCO.NET	

MARLITE	ELIASON DOOR
MARLITE	ELIASON DOOR CORPORATION
CONTACT: TOM McCLAIN	PH: (800) 828-3655
PH: (972) 250-9260	

WINDOW SHADES	
ROLL-A-SHADE	
CONTACT: RIC BERG	
29885 2ND STREET - UNIT E	
LAKE ELSINORE, CA 92532	
PH: (951) 245-5077 X113	
E-MAIL: RIC@ROLLASHADE.COM	

DRAWING INDEX

		PRELIMINARY DESIGN	COSTING	FINAL DESIGN	CHECK SET	PERMIT	CONSTRUCTION	
GENERAL INFORMATION								
CS1.0	COVER SHEET					●		
CS2.0	ABBREVIATIONS & GENERAL NOTES					●		
CS3.0	CODE PLAN & ANALYSIS					●		
CIVIL								
	NOT USED							
	NOT USED							
	NOT USED							
LANDSCAPE								
	NOT USED							
	NOT USED							
ARCHITECTURAL								
D1.0	DEMO FLOOR PLAN					●		
D2.0	DEMO CEILING PLAN					●		
A0.1	ARCHITECTURAL SITE PLAN					●		
A0.2	SITE DETAILS					●		
A0.3	TRASH ENCLOSURE DETAILS					●		
A1.0	DIMENSIONED FLOOR PLAN					●		
A1.1	DIMENSIONED ENLARGED PLANS					●		
A1.2	DIMENSIONED OUTLET PLAN					●		
A2.0	FLOOR FINISH PLAN					●		
A2.1	WALL FINISH PLAN					●		
A3.0	REFLECTED CEILING PLAN					●		
A3.1	PARTIAL ROOF PLAN					●		
A4.0	EXTERIOR ELEVATIONS					●		
A5.0	INTERIOR ELEVATIONS					●		
A5.1	INTERIOR ELEVATIONS					●		
A6.0	BUILDING SECTIONS							
A6.1	EXTERIOR WALL SECTIONS					●		
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A7.0	PLAN DETAILS					●		
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A7.2	EXTERIOR DETAILS					●		
A7.3	INTERIOR DETAILS					●		
A7.4	INTERIOR DETAILS					●		
A7.5	INTERIOR DETAILS					●		
A8.0	SCHEDULES & DETAILS					●		
A9.0	FURNISHINGS PLAN					●		
A9.1	DECOR PLAN					●		
A9.2	TOILET ROOM FINISH PLAN					●		
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ST1.1	STUDIO "C" DETAILS					●		
G1.0	GAMES LAYOUT					●		
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SP.2	ARCHITECTURAL SPECIFICATIONS					●		
SP.3	ARCHITECTURAL SPECIFICATIONS					●		
SP.4	ARCHITECTURAL SPECIFICATIONS					●		
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K2.0	KITCHEN ELECTRICAL PLAN							
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S0.2	STRUCTURAL DETAILS					●		
S0.3	STRUCTURAL SPECIFICATIONS					●		
S1.0	FOUNDATION PLAN							
S2.0	ROOF FRAMING PLAN							
S3.0	FOUNDATION DETAILS							
S3.1	FOUNDATION DETAILS							
S4.0	FRAMING DETAILS							
S4.1	FRAMING DETAILS							
S5.0	SOFT PLAY (PROVIDED BY THE OWNER)							
S6.0	STRUCTURAL DETAILS							
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MEP1.2	MEP SITE PLAN							
MEP2.1	MEP SPECIFICATIONS					●		
MEP2.2	MEP SPECIFICATIONS					●		
PLUMBING								
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P2.1	PLUMBING WASTE PLAN					●		
P2.2	PLUMBING WATER PLAN					●		
P3.1	PLUMBING FIXTURE SCHEDULES					●		
P3.2	PLUMBING DETAILS					●		
P3.3	PLUMBING DETAILS					●		
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P4.1	PLUMBING RISER DIAGRAMS					●		
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M1.3	MECHANICAL DETAILS					●		
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E2.0	POWER FLOOR PLAN					●		
E3.0	POWER KITCHEN PLAN					●		
E4.0	STUDIO 'C' 2000 PLAN					●		
E5.0	ELEC. SCHED. & RISER					●		
E6.0	ELECTRICAL DETAILS					●		
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E8.0	SITE EGRESS PHOTOMETRIC PLAN							
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F1.2	FIRE PROETECTION DETAILS							

PROJECT SCOPE

THE PROJECT SCOPE OUTLINED IN THIS SET OF PLANS INCLUDES A 14,000 SQUARE FOOT IN-LINE CHUCK 'E' CHEESE'S RESTAURANT AND ENTERTAINMENT CENTER AND ASSOCIATED SITE IMPROVEMENTS. THE PROPOSED FINISH OUT IS TO BE A STEEL FRAMED STRUCTURE WITH A METAL STUD / STUCCO / CMU WAINSCOT FACADE. THE EXTERIOR SIGNAGE AND LIGHTING IS PER THE CEC ENTERTAINMENT DESIGN STANDARDS. THE INTERIORS ARE DESIGNED PER THE CURRENT CEC ENTERTAINMENT INTERIOR DESIGN STANDARDS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
No. 2595
6.3.10

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

REVISED DRAWINGS
JUN 7 2010
FAYETTEVILLE
BUILDING SAFETY DIVISION

PLAN REVIEW
JUN 14 2010
APPROVAL

PROJECT NO: 090899
DRAWN BY: SA
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

COVER SHEET

CS1.0

3001 N College Ave

AP 42988

ABBREVIATIONS

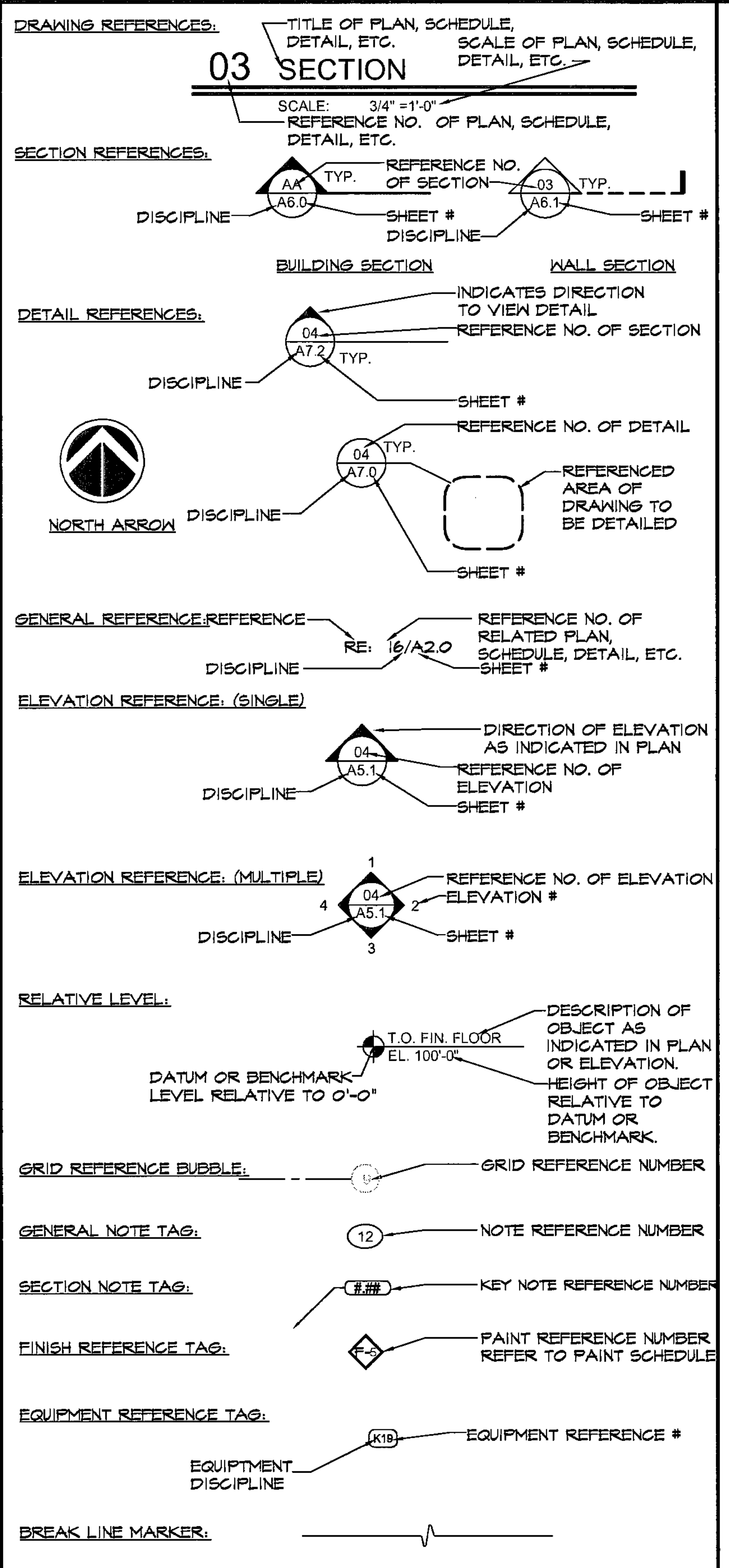
&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
[	CHANNEL
?	DIAMETER OR ROUND
#	POUND OR NUMBER
⅊	PLATE
A, AMP.	AMPERE
A.B.	ANCHOR BOLT
ABV.	ABOVE
A/C	AIR CONDITIONING
A.C.T.	ACOUSTICAL CEILING TILE
ACOUST.	ACOUSTICAL
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	ADA ACCESSIBILITY GUIDELINES
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AL.	AREA LIGHTING
ALUM. or AL.	ALUMINUM
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APLD.	APPLIED
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ARCH'L.	ARCHITECTURAL
ASPH.	ASPHALT
AUTO.	AUTOMATIC
AVE.	AVENUE
B & B	BOARD & BATTEN
B.F.S.	BELOW FINISHED SLAB
BH.	BULKHEAD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BLVD.	BOULEVARD
BM.	BEAM
B.O.C.	BASE OF CURB
B.O.F.	BOTTOM OF FRAMING
BOT.	BOTTOM
BRD.	BOARD
BRG.	BEARING
B.S.	BUILDING SECTION
BS.	BOTH SIDES
BSMT.	BASEMENT
BTWN.	BETWEEN
B.U.	BUILT-UP
BULKHD.	BULKHEAD
(C)	CAULK CONDUIT OR CELSIUS
CAB.	CABINET
C.B.	CATCH BASIN AND CIRCUIT BREAKER
C.C.	CENTER TO CENTER
CEM.	CEMENT
CER.	CERAMIC
CFM.	CUBIC FEET PER MINUTE
CFL.	COUNTER FLASHING
C.H.	CONDUCTOR HEAD
CHT.	CEILING HEIGHT
	CAST IRON
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.L.	CENTER LINE
CL.	COLUMN MOUNT
CLG.	CEILING
CLOS.	CLOSET
CLR.	CLEAR
CLSRM.	CLASSROOM
C.M.P.	CORRUGATED METAL PIPE
CMU.	CONCRETE MASONRY UNIT
CNTR.	COUNTER
C.O.	CONCRETE OPENING AND CLEAN-OUT OR CONDUIT ONLY.
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CPT.	CARPET
C.T.	CERAMIC TILE
CTSK.	COUNTERSUNK
CTR.	CENTER
CW	COLD WATER
CWV	COLD WATER VENT
D.A.	DOUBLE ACTING
D.B.A.	DEFORMED BAR ANCHOR
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DIP	DUCTILE IRON PIPE
DN.	DOWN
DR.	DOOR
D.S.	DOWNSPOUT
DWG.	DRAWING
(E)	EXISTING EAST
EA.	EACH
E.B.	EXPANSION BOLT
E.F.	EXHAUST FAN
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEV.	ELEVATION
ELEC.	ELECTRIC

ELECT.	ELECTRICAL
ELVR.	ELEVATOR
E.O.S.	EDGE OF SLAB
E.P.	ELECTRICAL PANELBOARD
EQ.	EQUAL
EQP.	EQUIPMENT
EQUIP.	EQUIPMENT
E.S.C.	EXTERIOR SPECIAL COATING
EST.	ESTIMATE
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.B.O.	FURNISHED BY OWNER
F.B.T.	FURNISHED BY TENANT
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FACTORY FINISH
F.F.E.	FINISH FLOOR ELEVATION
F.F.L.	FINISH FLOOR LINE
F.G.	FLAT GROWN
FG	FINISHED GRADE
F.H.	FIRE HYDRANT
F.H.C.	FIRE HOSE CABINET
F.H.M.S.	FLAT HEAD METAL SCREW
F.H.W.S.	FLAT HEAD WOOD SCREW
FIN.	FINISH (ED)
F.I.O.	FURNISHED AND INSTALLED BY OWNER
F.I.T.	FURNISHED & INSTALLED BY TENANT
FL	FLOW LINE
F.L.A.	FULL LOAD AMPS
FLG.	FLASHING
FLR.	FLOOR (ING)
FLSHG.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.C.	FACE OF CURB/CONCRETE
F.O.F.	FACE OF FINISH
F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.O.T.	FACE OF TREAD
FRP.	FIBER REINFORCED PANEL
FRTW.	FIRE-RETARDANT TREATED WOOD
F.S., F.	FIRE SERVICE
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
F.V.	FIELD VERIFY
G.	GROUND AND NATURAL GAS
GA.	GAUGE
GAL.	GALLON
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
G.C.O.	GREASE CLEAN OUT
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER
G.I.	GALVANIZED IRON (STEEL)
GL.	GLASS
G.L.B.	GLU-LAM BEAM
GND.	GROUND
GR.	GRADE
G.S.	GALVANIZED STEEL
G.S.F.	GROSS SQUARE FOOTAGE
GYP.	GYPSUM
GYP. BRD	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HANDICAPPED
H.C.A.	HEADED CONCRETE ANCHOR
H.D.	HIGH DENSITY
HD.	HEAD
HDBD.	HARDBOARD
HDWD.	HARDWOOD
HDWR., HW	HARDWARE
HDR.	HEADER
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.P.	HIGH POINT AND HORSEPOWER
H.R.	HANDRAIL
HR.	HOUR
HT.	HEIGHT
HTR.	HEATER
H. & S.	HARDEN & SEAL
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HYD.	HYDRANT
HW	HOT WATER
HWR	HOT WATER RECLAIM
HWV	HOT WATER VENT
INCAN.	INCANDESCENT
I.D.	INSIDE DIAMETER (DIM.)
IE.	INVERT ELEVATION
I.F.O.	INSIDE FACE OF
I.G.	ISOLATED GROUND
IN.	INCH
INSUL.	INSULATION
INT.	INTERIOR AND INTERCOM
INV.	INVERT
IW	INTERMEDIATE WATER
JAN.	JANITOR
JM.	JAMB
JST.	JOIST
JT.	JOINT AND JOINT TRENCH

KIT.	KITCHEN
K.O.	KNOCKOUT
KS	KNEE SPACE
LAB.	LABORATORY
LAM.	LAMINATE(D)
LAV.	LAVATORY
LBS.	POUNDS
L.F.	LINEAR FEET
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
L.P.	LOW POINT or LIGHT POLE
LT.	LIGHT
L.W.C.	LIGHT WEIGHT CONCRETE
LVL.	LEVEL
MAS.	MASONRY
MATL.	MATERIAL (S)
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MEMB.	MEMBRANE
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
M.H.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING AND MONEY ORDER MACHINE
M.R.D.	METAL ROOF DECK
MTD.	MOUNTED
MTG.	MEETING
MTL.	METAL
MUL.	MULLION
MWK.	MILLWORK
(N)	NEW
N.	NORTH AND NEUTRAL
NE.	NORTHEAST
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
NW.	NORTHWEST
O.A.	OVER ALL
O.C.	ON CENTER (S) AND OVER COUNTER
O.C.O.	OUTSIDE CORNER OF
O.D.	OUTSIDE DIAMETER (DIM.)
O.F.	OVERFLOW
OFF.	OFFICE
O.F.O.	OUTSIDE FACE OF
O/H	OVERHEAD
OHE	OVERHEAD ELECTRIC
O.H.	OPPOSITE HAND
OPP. HAND	OPPOSITE HAND
OPG.	OPENING
OPP.	OPPOSITE
O.S.A.	OUTSIDE AIR
O.S.B.	ORIENTED STRAND BOARD
O.T.B.	OUT TO BID
P.	POLE
(P), P, P'TD	PAINTED
(PC).	PHOTOCELL LIGHTING
P.C.	PRECAST CONCRETE
PERF.	PERFORATED
P.F.	PREFINISHED
PH.	PHASE AND PHARMACY
P.I.P.	POURED IN PLACE
(PL).	POLE MOUNT
P/L.	PROPERTY LINE
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLC'S	PLACES
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
PR.	PAIR
PRESERV.	PRESERVATIVE
PROP.	PROPOSED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	POINT
P.T.	PRESSURE TREATED
PTBD.	PARTICLE BOARD
P.T.D.	PAPER TOWEL DISPENSER
PTFR	PRESSURE TREATED FIRE RESISTIVE
PTN.	PARTITION
PVC.	POLYVINYL CHLORIDE
PVMT.	PAVEMENT
P/WAY	PATHWAY
Q.T.	QUARRY TILE
(R)	REMOVE
R., RI.	RISER
RA.	RETURN AIR
RAD	RADIUS
R.B.	RUBBER BASE
R.D.	ROOF DRAIN
RD.	ROAD & ROUND
RE:	REFERENCE, REFER TO, AND COORDINATE WITH
REF.	REFRIGERATOR
REFL.	REFLECTED
REFR.	REFRIGERATION
REINF.	REINFORCING
REL.	RELOCATED
REQ'D.	REQUIRED
RESIL.	RESILIENT
RFH.	ROOF HATCH
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R.P.C.	REFRIGERATION PROBE CABLE

RT.	RUBBER TILE
RTU	ROOF-TOP UNIT
RVS.	REVERSE (SIDE)
R.W.L.	RAIN WATER LEADER
(S)	SEALANT
S.	SOUTH AND SLOPE
S.A.	SUPPLY AIR
SAN.	SANITARY
S.A.T.	SUSPENDED ACOUSTICAL CEILING
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	SMOKE DETECTOR, SOAP DISPENSER AND STORM DRAIN
SEAL.	SEALANT
SE.	SOUTHEAST
SECT.	SECTION
S.F.	SQUARE FOOT/FEET
SHWR.	SHOWER
SHT.	SHEET
SHTG.	SHEETING
SIM.	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SP.	SPACES
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S.S.	STAINLESS STEEL OR SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
ST.	STREET
STA.	STATION
STD.	STANDARD
STL.	STEEL
STM.	STORM OR STORM LINE
STMH	STORM MANHOLE
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
S.V.	SHEET VINYL
SW.	SOUTHWEST
SYM.	SYMMETRICAL
T.	TRANSFORMER
T., TR.	TREAD
T.&B.	TOP & BOTTOM
T.B.	TOWEL BAR
T.C.	TOP OF CURB
T.D.	TOP OF DRAIN
TELE.	TELEPHONE
T & G	TONGUE & GROOVE
THK.	THICKNESS
THRES.	THRESHOLD
T.J.	TOOL JOINT
T.L.	TRUE LENGTH
T.O.	TOP OF
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB/CONCRETE
T.O.D.	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.J.	TOP OF JOIST
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PAVEMENT/PARAPET
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TOPO.	TOPOGRAPHY
T.P.D.	TOILET PAPER DISPENSER
T.S.	TUBE STEEL AND TEMPERATURE SENSOR
T.T.B.	TELEPHONE TERMINAL BOARD
T.V.	TELEVISION
TYP.	TYPICAL
U.D.L.	UNIFORM DISTRIBUTED LOAD
UE	UNDERGROUND ELECTRIC
U.N.O.	UNLESS NOTED OTHERWISE
UTIL.	UTILITY
V.	VOLTS AND VENT
VAR.	VARIES
V.C.T.	VINYL COMPOSITION TILE
VENT.	VENTILATION
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.P.	VENT PIPE
VR.	VENT RISER
V.T.	VINYL TILE
VTR.	VENT THRU ROOF
V.W.C.	VINYL WALL COVERING
W.	WEST, WATTS AND WATER
W/	WITH
WC.	WALLCOVERING
W.C.	WATER CLOSET
WD.	WOOD
W.GL.	WIRE GLASS
W.H.	WATER HEATER
W/O	WITHOUT
WP.	WATERPROOF
W.P.	WORK POINT
WP/H.	WEEP HOLE
W.R.	WATER RESISTANT
WSCT.	WAINSCOT
WT.	WEIGHT
W.V.	WATER VALVE
W.W.F.	WELDED WIRE FABRIC

SYMBOLS LEGEND



MATERIALS LEGEND

- ▨ COMPACTED FILL OR SOIL
- ▨ COMPACTED BACKFILL
- ▨ DRAINAGE FILL
- ▨ CONCRETE
- ▨ BRICK
- ▨ PLASTER OR STUCCO
- ▨ GYPSUM WALL BOARD
- ▨ BATT OR LOOSE FILL INSULATION
- ▨ CONCRETE MASONRY UNIT - SECTION
- ▨ STEEL
- ▨ FINISH WOOD
- ▨ WOOD BLOCKING
- ▨ FINISH WOOD
- ▨ PLYWOOD
- ▨ TILE
- ▨ WOOD STUD PARTITION
- ▨ STEEL STUD PARTITION
- ▨ CONCRETE MASONRY UNIT - ELEVATION
- ▨ GLASS
- ▨ EPS INSULATION / EIFS
- ▨ ROOFING INSULATION
- ▨ ROOFING PROTECTION / COVER BOARD
- ▨ MARLITE
- ▨ CEMENT BOARD
- ▨ CORIAN

GENERAL NOTES

1. THE CONTRACTOR SHALL FULLY ACQUAINT HIM/HERSELF WITH THE CONDITIONS AND REQUIREMENTS OF THE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, INCLUDING OTHER PARTS OF THE PROPOSED CONTRACT DOCUMENTS, AND FULLY UNDERSTAND THE CONDITIONS, DIFFICULTIES AND RESTRICTIONS COMPLETELY, BEFORE EXECUTING THE WORK. IT IS UNDERSTOOD THAT OMISSIONS FROM THE BID, DUE TO FAILURE OF THE CONTRACTOR TO FULLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DOCUMENTS, WILL NOT ENTITLE HIM TO ADDITIONAL CONSIDERATION AND/OR COMPENSATION. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK.

2. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE CONSTRUCTION DOCUMENTS, OR BE IN DOUBT AS TO THE MEANING AND INTENTION OF ANY ITEM OR REQUIREMENT, THEY SHALL NOTIFY THE OWNER AT ONCE.

3. THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR TO ESTABLISH THE LIMITS AND EXTENT OF WORK TO BE PERFORMED BY A PARTICULAR TRADE. THE G.C. ALONE IS RESPONSIBLE FOR THE COMPLETION OF THE ENTIRE WORK AS DRAWN AND SPECIFIED, COMPLETE IN PLACE AND IN FUNCTIONAL OR OPERATING CONDITION. THE DIVISION OF THE SPECIFICATIONS INTO SECTIONS AND PARAGRAPHS AND ORGANIZATION OF THE DRAWINGS IS FOR CONVENIENCE ONLY AND NOT FOR THE PURPOSE OF LIMITING OR RESTRAINING PERFORMANCE OF ANY PORTION OF THE WORK TO ANY PARTICULAR TRADE.

4. ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, INCLUDING THESE GENERAL NOTES. THE G.C. SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL THE TRADES.

5. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

6. ANY STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (IF REQUIRED) ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERS' DRAWINGS THAT WOULD CAUSE AN IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.

7. SPECIFICATIONS ARE CONTAINED IN THESE CONTRACT DOCUMENTS.

8. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

9. WHERE A TYPICAL CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.

10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES AT THE SITE. PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.

11. THE CONTRACTOR IS TO PROVIDE TEMPORARY FACILITIES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITIES OR JURISDICTIONAL ORDINANCE.

12. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD, COMPARE THOSE MEASUREMENTS TO THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD. DRAWINGS SHALL NOT BE SCALED OFF, FOR MEASUREMENT.

13. NO CHANGE IN THE SCOPE OR INTENT OF THE WORK SHALL OCCUR WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OF RECORD OR C.E.C. ENTERTAINMENT INC.

14. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BARRICADING AND BRACING NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF THE BUILDING AND THE HEALTH OF THE PUBLIC AND ALL WHO ENTER THE BUILDING DURING COMPLETION OF THE SCOPE OF WORK DEFINED BY THIS ARCHITECTURAL DOCUMENTATION SET.

15. ALL WORK SHALL COMPLY WITH LOCAL BUILDING AUTHORITIES, CODES, REGULATIONS, ORDINANCES AND STATUTES, STATE, FEDERAL CODE AND OTHER JURISDICTIONAL AUTHORITIES, AND LATEST REVISIONS THEREOF. MODIFICATIONS REQUIRED BY THE ABOVE AND AUTHORITY SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE OWNER.

16. ALL EMERGENCY BUILDING EXITS REQUIRED BY CODE, SHALL BE OPERABLE AND UNOBSTRUCTED DURING CONSTRUCTION PERIOD.

17. FIRE EXTINGUISHER CABINETS TO BE FURNISHED AND INSTALLED BY THE G.C. ARE TO BE IN COMPLIANCE WITH CITY AND APPLICABLE FIRE CODES.

18. BOTH PLACEMENT AND QUANTITY OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHALL AND COMPLY WITH ALL N.F.P.A. REQUIREMENTS. G.C. TO COORDINATE INSTALLATION.

19. FIRE SPRINKLER SYSTEMS ARE TO BE SUBMITTED BY THE GENERAL CONTRACTOR FOR SEPARATE REVIEW AND PERMIT AS REQUIRED BY THE FIRE DEPARTMENT.

20. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL FIRE LIFE SAFETY DEVICES WITH THE FIRE INSPECTOR AND THE OWNER REPRESENTATIVE FOR ON-SITE APPROVAL PRIOR TO INSTALLATION.

21. INTERIOR FINISHES SHALL COMPLY WITH LOCAL CODES.

22. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACKING, HANGERS, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, FIXTURES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED PLUMBING, MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.

23. EXIT PATH LIGHTING SHALL BE PROVIDED FOR HALLWAY, EXIT PASSAGEWAY AND EGRESS TO A PUBLIC WAY ANY TIME THE BUILDING IS OCCUPIED.

24. ALL EXIT LIGHTING AND SIGNS SHALL HAVE SIX INCH HIGH LETTERS ON A CONTRASTING BACKGROUND.

25. NEW EXIT SIGNS SHALL BE ILLUMINATED WITH TWO 15W LAMPS ON SEPARATE CIRCUIT. ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES WIRING SYSTEM. ONE OF EACH SHALL BE SEPARATED FROM ALL OTHER CIRCUITS IN THE BUILDING, AND INDEPENDENTLY CONTROLLED.

26. WHENEVER THE BUILDING IS OCCUPIED, EXIT SIGNS SHALL BE LIGHTED SO THAT THEY ARE CLEARLY VISIBLE.

27. FIRE-RESISTIVE WALLS AND PARTITIONS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION AREA. "OUTLET BOXES" ON OPPOSITE SIDES OF WALLS AND PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.

28. INTERIOR WALL AND CEILING FINISH FLAME-SPREAD RATING SHALL BE AS REQUIRED BY LOCAL CODES.

29. PENETRATIONS IN WALLS, FLOORS OR ROOF REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL CODES.

30. ALL WIRING WITHIN CONCEALED SPACES SHALL COMPLY WITH LOCAL CODES.

31. ALL DOOR SIZES SHOWN ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS (1/2"MIN), ETC. SHALL BE DEDUCTED. FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSURES, STOPS AND HARDWARE.

32. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8-1/2 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.

33. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL SWING IN THE DIRECTION OF EGRESS. G.C. TO PROVIDE EXIT SIGNS AS REQUIRED BY THE BUILDING OFFICIALS. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.

34. DOORS EQUIPPED WITH PANIC HARDWARE SHALL BE OPEN-ABLE WITH A FORCE OF 15 LBS. AS APPLIED IN THE DIRECTION OF EGRESS TO THE BAR.

35. EGRESS DOORS SHALL BE OPERABLE UNDER A TOTAL PRESSURE OF NOT GREATER THAN 15 LBS.

36. ALL PUBLIC LIGHT SWITCHES, FIRE ALARMS AND OTHER PUBLIC CONTROL SWITCHES SHALL BE MOUNTED AT 4'-0" ABOVE THE FINISH FLOOR.

37. ALL DISCIPLINES REQUIRED TO PROVIDE SHOP DRAWINGS AND OR SAMPLES OF FINISHES, TO SUBMIT TO THE CONTRACTOR PRIOR TO START, WHO WILL FORWARD TO ARCHITECT AND C.E.C. ENTERTAINMENT INC. FOR COMMENTS, FOR APPROVAL OR RE-SUBMITTAL.

38. THE SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. G.C. SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.

39. REPLACE WORK OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED REQUIREMENTS IN THE OPINION OF C.E.C. ENTERTAINMENT INC. AND OR CAHEN ARCHITECTURAL GROUP P.C.

40. ALL ITEMS TO BE SUPPLIED AND INSTALLED (TO A FULLY FINISHED LEVEL) BY G.C. - G.C. TO PROVIDE POWER AS REQUIRED.

41. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF THE JOB SITE AND IT'S SURROUNDING AREA AND REMOVE ALL CONSTRUCTION DEBRIS FOR PROPER DISPOSAL.

42. THE G.C SHALL:
- COORDINATE PARKING, MATERIAL DELIVERY, AND DUMPSTER LOCATIONS W/ DEVELOPER.
- MAINTAIN ALL PEDESTRIAN WALKWAYS OPEN DURING CONSTRUCTION.
- COORDINATE ANY SPRINKLER SHUT OFFS W/ DEVELOPER.

43. FIRE ALARM SYSTEM TO BE SUBMITTED BY THE GENERAL CONTRACTOR FOR SEPARATE REVIEW & PERMIT AS REQUIRED BY THE FIRE DEPARTMENT.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1930 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH (314) 415-2400 FAX (314) 415-2300
www.arcv.com

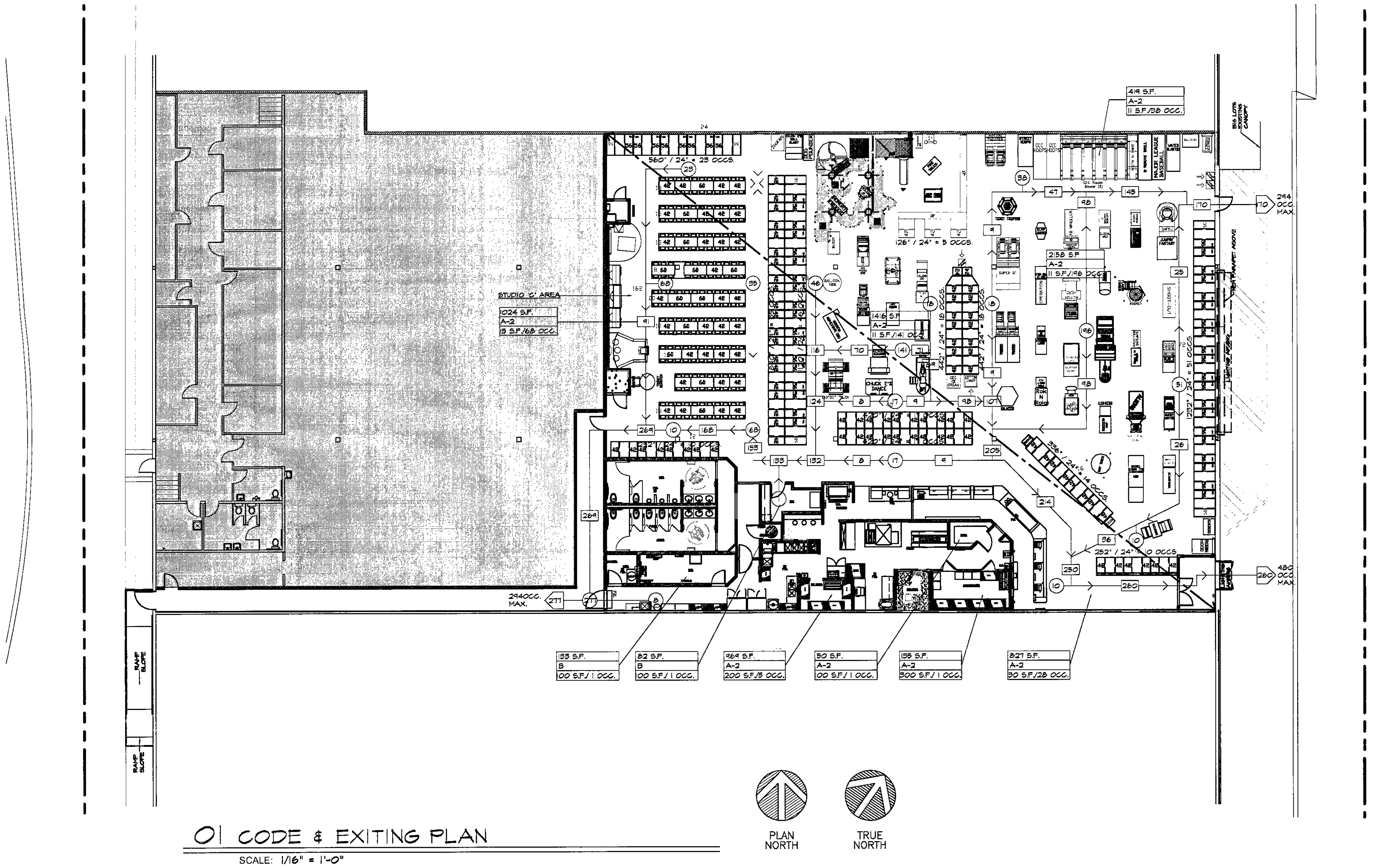
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

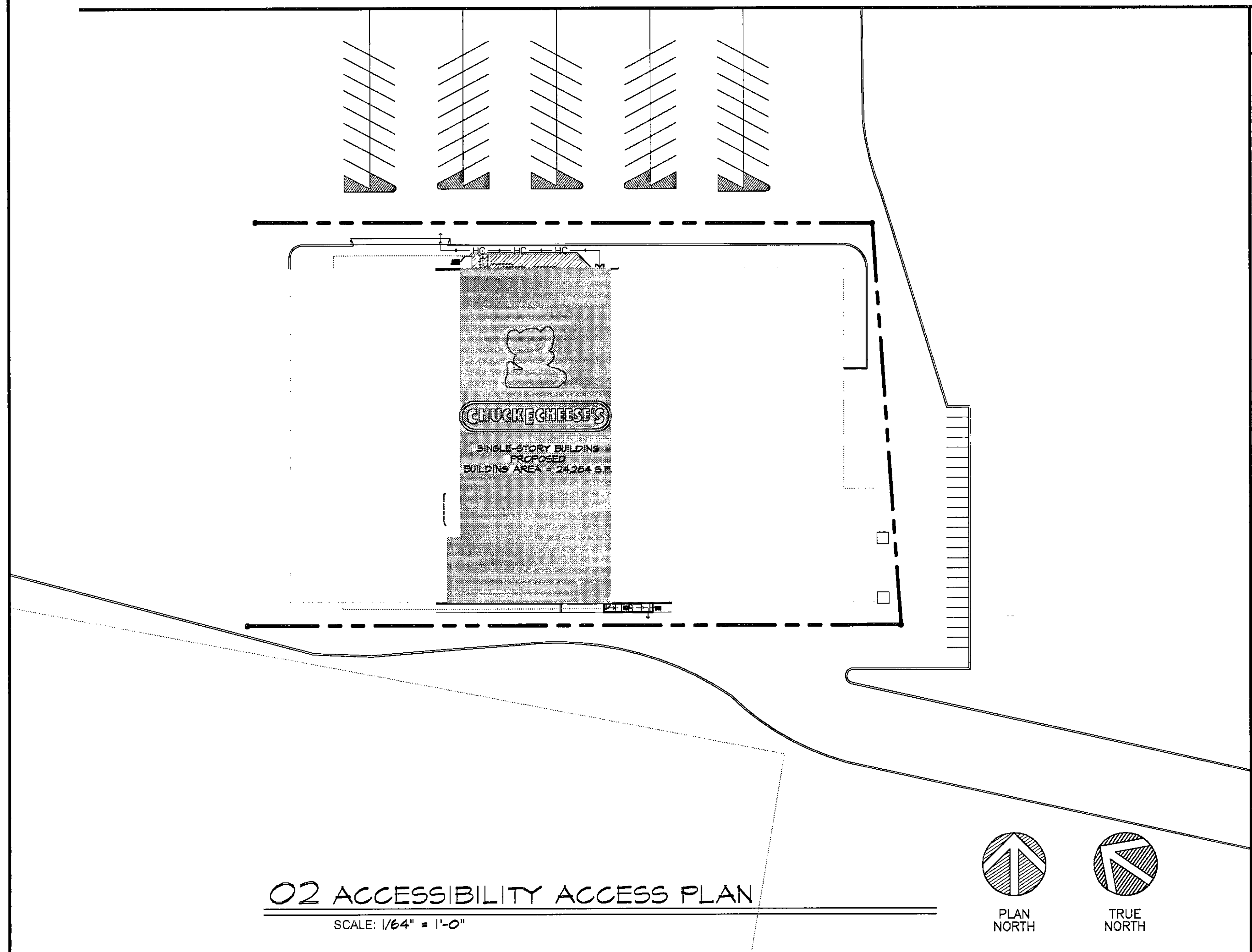
SHEET INFORMATION

CS2.0



01 CODE & EXITING PLAN

SCALE: 1/16" = 1'-0"



02 ACCESSIBILITY ACCESS PLAN

SCALE: 1/64" = 1'-0"

CODE PLAN LEGEND

TRAVEL DISTANCE (IN FEET - NO INCHES)

- (XX) — OCCUPANCY LOAD OF ROOM/AREA
- DIRECTION OF TRAVEL
- TRAVEL PATH AND LENGTH
- XX — SUBTOTAL OCC. EGRESS
- 1 — TOTAL OCCUPANT EGRESS
- XX MAX. — MAXIMUM ALLOWED OF OCCUPANTS PER EXIT WIDTH
- XX — TOTAL SQUARE FOOTAGE OF ROOM
- XX — OCCUPANCY TYPE
- XX / XX — TOTAL OCCUPANCY OF AREA
- OCCUPANCY RATE, FLOOR AREA IN SQ. FT. PER PERSON
- TOTAL NUMBER INCHES OF BOOTH SEATING
- 234" / 24" = 23 OCCS. — TOTAL OCCUPANCY OF BOOTH AREA
- NUMBER OF INCHES PER OCCUPANT
- DESCRIBED OCCUPANCY AREAS
- 75' RADIUS COVERAGE AREA
- FE — RECESSED FIRE EXTINGUISHER CABINET - COORDINATE EXACT LOCATION W/ FIRE DEPARTMENT
- FDC — FIRE DEPARTMENT CONNECTION
- MAXIMUM DIAGONAL DIMENSION OF FLOOR AREA
- 137'-0" MAX. = 26.50' — MINIMUM REQUIRED DIMENSION BETWEEN EXITS
- ▬ ▬ ▬ (1) HOUR FIRE PARTITION
- ▬ HC ▬ HANDICAP ROUTE

FIRE RATED ASSEMBLIES: (WHERE REQUIRED)

- ONE-HOUR STUD WALL CONSTRUCTION:	UL#U465
- ONE-HOUR OR TWO-HOUR PENETRATION:	UL#W-L-1049
- ONE-HOUR OR TWO-HOUR CABLE PENETRATION:	UL#W-L-1019
- ONE-HOUR OR TWO-HOUR SLIP JOINT:	UL#HW-D-0118
- TWO-HOUR CAULK JOINT:	UL#WW-S-0032
- PIPE PENETRATION AT STUD PARTITION:	UL#W-L-7025

CODE ANALYSIS

BUILDING INFORMATION:	
LOCATION:	3001 COLLEGE AVE. FAYETTEVILLE, ARKANSAS 72703
SITE AREA:	INLINE
ZONING:	YEAR ORDINANCE - EXISTING
REQUIRED SETBACKS:	FRONT: EXISTING SIDE: PROJECT EXISTING REAR: PROJECT EXISTING
MAXIMUM HEIGHT PERMITTED BY CITY:	30'-0"
EXISTING:	21'-0" TO HIGHEST POINT
PARKING REQUIREMENTS:	SPACES TOTAL = 141
REQUIRED:	6 ACCESSIBLE SPACES PER A.B.C. -TABLE 1106.11 VAN ACCESSIBLE SPACES PER I.B.C. - SECTION 1106.5
PROVIDED:	159 SPACES TOTAL ONSITE 6 ACCESSIBLE SPACES/ 2 BEING A VAN ACCESSIBLE SPACES

BUILDING CODE SUMMARY:

BUILDING CODE:	2006 ARKANSAS BUILDING CODE
OCCUPANCY CLASS:	A-2 (RESTUARANT)
CONSTRUCTION TYPE:	V-B NON-RATED
BASE ALLOWABLE AREA:	N/A
BUILDING SQUARE FOOTAGE: FLOOR AREA:	14,109 GROSS SQUARE FEET 14,000 NET SQUARE FEET
FIRE AREA:	14,000 GROSS SQUARE FEET
NUMBER OF STORIES:	1 - STORY
TOTAL BUILDING PERIMETER:	N/A
OPEN BUILDING PERIMETER:	N/A

APPLICABLE CODES:

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS IN AFFECT AT THE TIME OF BIDDING AND CONSTRUCTION.

MECHANICAL:	2006 ARKANSAS MECHANICAL CODE
ELECTRICAL:	2008 NATIONAL ELECTRICAL CODE
PLUMBING:	2006 ARKANSAS PLUMBING CODE
HEALTH:	STATE OF ARKANSAS
FIRE:	2007 ARKANSAS FIRE PREVENTION CODE
ACCESSIBILITY:	2003 ICC/ANSI A117.1
ENERGY:	2004 ARKANSAS ENERGY CODE
FIRE SPRINKLER::	NFPA 13
FIRE ALARM:	NFPA 72

A.B.C. CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

GENERAL HEIGHT AND AREA LIMITATIONS: SECTION 503.1.3:

HEIGHT/AREA LIMITATIONS:
MAXIMUM ALLOWABLE AREA PER TABLE 503 FOR A-2 OCCUPANCY:
TYPE V-B = 6,000 SQUARE FEET / ONE STORY
AUTOMATIC SPRINKLER SYSTEM HEIGHT INCREASE: SECTION 504.2
WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE VALUE SPECIFIED IN TABLE 503 FOR MAXIMUM HEIGHT IS INCREASED BY 20 FEET AND THE MAXIMUM NUMBER OF STORIES IS INCREASED BY ONE STORY.

MAX. HEIGHT. ALLOWED PER TABLE 503 FOR A-2 OCCUPANCY: TYPE V-B = 1 STORY AND 40' HIGH
ALLOWABLE SPRINKLER INCREASE: 2 STORIES AND 60' HIGH

ACTUAL HEIGHT: 29'-1" MAXIMUM HEIGHT PROPOSED.

SECTION 506 - AREA MODIFICATIONS:

ALLOWABLE AREA: AA = [AT + (AT X IF) + (AT X IS)]
AA = N/A

CONCLUSION:	ALLOWABLE	PROPOSED
ALLOWABLE AREA PER STORY:	EXISTING	EXISTING

I.B.C. CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 602 - BUILDING CLASSIFICATION:
TYPE V-B
(NON-RATED)
SECTION 602.3
TYPE V. -TYPE VCONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALL ARE OF ANY MATERIALS PERMITTED BY THIS CODE.

FIRE-RESISTANT RATINGS PER TABLE 601:

BUILDING ELEMENT	V-B
- STRUCTURAL FRAME	0
- EXTERIOR BEARING WALLS	0
- INTERIOR BEARING WALLS	0
- EXTERIOR NON-BEARING WALLS	SEE TABLE 602
- INTERIOR NON-BEARING WALLS	0
- FLOOR CONSTRUCTION	0
- ROOF CONSTRUCTION	0

FIRE-RESISTANT RATINGS FOR EXTERIOR WALLS PER TABLE 602:

TYPE V-B CONSTRUCTION, A-2 OCCUPANCY:

<5 FEET	= 1 HOUR
>5 FEET & <10 FEET	= 1 HOUR
>10 FEET & <30 FEET	= 0 HOUR
>30 FEET	= 0 HOUR

I.B.C. CHAPTER 7 - FIRE-RESISTANT RATED CONSTRUCTION

SECTION 704.2.2:
- TYPE V-B CONSTRUCTION: PROJECTIONS FROM WALLS OF TYPE V CONSTRUCTION SHALL BE OF ANY APPROVED MATERIALS.

SECTION 1014 EXIT ACCESS:
1014.2 EGRESS THROUGH INTERVENING SPACES:
- EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS ARE ACCESSORY TO THE AREA SERVED; ARE NOT HIGH-HAZARD OCCUPANCIES AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES.

1014.3 COMMON PATH OF EGRESS TRAVEL: THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET.

SECTION 1016 EXIT ACCESS TRAVEL DISTANCE:
TABLE 1016.1 TRAVEL DISTANCE LIMITATIONS: (WITH SPRINKLER SYSTEM) 250 FEET
- OCCUPANCY TYPES (B)
A-2:
B. BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. SEE SECTION 903 FOR OCCUPANCIES WHERE AUTOMATIC SPRINKLER SYSTEMS IN ACCORDANCE WITH SECTION 903.3.1.2 ARE PERMITTED.

SECTION 1019 NUMBER OF EXITS AND CONTINUITY: 3 EXITS REQUIRED.
1019.1 TABLE 1019.1: MINIMUM NUMBER OF EXITS: FOR OCCUPANT LOADS MORE THAN 500 S.F.:

NUMBER OF EXITS PROPOSED: 3 EXITS IN RESTAURANT / GAMES AREA.
4 EXITS TOTAL.

I.B.C. CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2.1.2 GROUP A-2: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS CONTAINING A GROUP A-2 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:
- O THE FIRE AREA EXCEEDS 5,000 SQUARE FEET.

SECTION 907 FIRE ALARM AND DETECTION SYSTEMS:
907.2 WHERE REQUIRED:AN APPROVED MANUAL AND AUTOMATIC FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 907.2 THROUGH 907.2.23. WHERE AUTOMATIC SPRINKLER PROTECTION IS PROVIDED AND CONNECTED TO THE BUILDING FIRE ALARM SYSTEM, AUTOMATIC HEAT DETECTION SHALL NOT BE REQUIRED. AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72.
907.2.1 GROUP A-2:A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP A-2 OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR MORE PERSONS OR MORE.

I.B.C. CHAPTER 10 - MEANS OF EGRESS

SECTION 1003 GENERAL MEANS OF EGRESS:

1003.2 CEILING HEIGHT: THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET.

1003.3 PROTRUDING OBJECTS:PROTRUDING OBJECT SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 1003.3.1 THROUGH 1003.3.4.
- 1003.3.1 HEADROOM: PROTRUDING OBJECTS ARE PERMITTED TO EXTEND BELOW THE MINIMUM CEILING HEIGHT REQUIRED PROVIDED A MINIMUM OF 80 INCHES SHALL BE PROVIDED FOR ANY WALKING SURFACE. NOT MORE THAN 50 PERCENT OF THE CEILING AREA OF A MEANS OF EGRESS SHALL BE REDUCED IN HEIGHT BY PROTRUDING OBJECTS.
- 1003.3.2 FREE-STANDING OBJECTS: A FREE-STANDING OBJECT MOUNTED ON A POST OR PYLON SHALL NOT OVERHANG THAT POST OR PYLON MORE THAN 12 INCHES WHERE THE LOWEST POINT OF THE LEADING EDGE IS MORE THAN 27 INCHES AND LESS THAN 80 INCHES ABOVE THE WALKING SURFACE.
- 1003.3.3 HORIZONTAL PROJECTIONS: STRUCTURAL ELEMENTS, FIXTURES OR FURNISHINGS SHALL NOT PROJECT HORIZONTALLY FROM EITHER SIDE MORE THAN 4 INCHES OVER ANY WALKING SURFACE BETWEEN HEIGHTS OF 27 INCHES AND 80 INCHES ABOVE THE WALKING SURFACE.

  HANDRAILS SERVING STAIRS AND RAMPS ARE PERMITTED TO PROTRUDE 4.5 INCHES FROM THE WALL.
- 1003.4 FLOOR SURFACE: WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

SECTION 1004 OCCUPANT LOAD:
THE FOLLOWING IS THE MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT PER TABLE 1004.1.1 THAT POTENTIALLY COULD BE USED:

PROPOSED OCCUPANT LOAD SUMMARY

USE	AREA PER OCCUPANT (SQ FT)	RESTAURANT AREA	OCCUPANT LOAD
ASSEMBLY w/o FIXED SEATS GAMES AREA	11 NET	4,183 SQ FT	363 OCC.
REST. w/o FIXED SEATING	15 NET	1024 SQ FT	68 OCC.
ORDER/PRIZE COUNTER	30 GROSS	827 SQ FT	28 OCC.
RESTAURANTS w/ FIXED SEATING BOOTHS	1 PERSON PER 24" FOR BOOTHS	6,212 IN.	258 OCC.
KITCHEN / SERVING AREA	200 GROSS	969 SQ FT	5 OCC.
STORAGE AREA	300 GROSS	135 SQ FT	1 OCC.
OFFICE AREA	100 GROSS	64 SQ FT	1 OCC.
TOTAL			724 OCC.
TOTAL x .15" = EXITING WIDTH REQUIRED			108"
EXITING WIDTH PROVIDED (4 EXITS)			192"

SECTION 1024 EXIT DISCHARGE:
1024.1 GENERAL:EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE DIRECT ACCESS TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER A BUILDING.
- O EXCEPTION 1: A MAXIMUM OF 50 PERCENT OF THE NUMBER AND CAPACITY OF THE EXIT ENCLOSURES IS PERMITTED TO EGRESS THROUGH AREAS ON THE LEVEL OF DISCHARGE PROVIDED ALL OF THE FOLLOWING ARE MET:
  - ? 1.1: SUCH EXIT ENCLOSURES EGRESS TO A FREE AND UNOBSTRUCTED WAY TO THE EXTERIOR OF THE BUILDING, WHICH WAY IS READILY VISIBLE AND IDENTIFIABLE FROM THE POINT OF TERMINATION OF THE EXIT ENCLOSURE.
  - ? 1.2: THE ENTIRE AREA OF THE LEVEL OF DISCHARGE IS SEPARATED FROM AREAS BELOW BY CONSTRUCTION CONFORMING TO THE FIRE-RESISTANCE RATING FOR THE EXIT ENCLOSURE.
  - ? 1.3: THE EGRESS PATH FROM THE EXIT ENCLOSURE ON THE LEVEL OF DISCHARGE IS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM.

I.B.C. CHAPTER 11 - ACCESSIBILITY

SECTION 1104 ACCESSIBLE ROUTE:
1104.1 SITE ARRIVAL POINTS:
ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS; ACCESSIBLE PARKING; ACCESSIBLE PASSENGER LOADING ZONES; AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.
SECTION 1106 PARKING AND PASSENGER LOADING FACILITIES:
1106.1 REQUIRED:WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1, EXCEPT AS REQUIRED BY SECTIONS 1106.2 THROUGH 1106.4. WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE SHALL BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY.
1106.5 VAN SPACES:FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE A VAN-ACCESSIBLE PARKING SPACE.

I.B.C. CHAPTER 29 - PLUMBING SYSTEMS

MINIMUM NUMBER OF PLUMBING FIXTURES PER TABLE 2902.1:
FIXTURES PER TYPE A-2 OCCUPANCY AND BUILDING PROPOSED OCCUPANT LOAD: (738 TOTAL)

OCCUPANT LOAD		MALE 200 OCC.	FEMALE 200 OCC.
WATER CLOSETS:	REQUIRED:	1 PER 75 = 3 REQUIRED	1 PER 75 = 3 REQUIRED
	PROPOSED:	5 PROPOSED	5 PROPOSED
LAVATORIES:	REQUIRED:	1 PER 200 = 3 REQUIRED	1 PER 200 = 3 REQUIRED
	PROPOSED:	3 PROPOSED	3 PROPOSED
DRINKING FOUNTAINS:	REQUIRED:	1 PER 500 (TOTAL OCC.) = 1 REQUIRED	
	PROPOSED:	BEVERAGE BAR PROVIDED	
SERVICE SINK:	REQUIRED:	1 SERVICE SINK	
	PROPOSED:	1 SERVICE SINK EXISTING	

I.F.C. APPENDIX B - FIRE-FLOW REQUIREMENTS FOR BUILDING

B105.2 FIRE-FLOW REQUIREMENTS FOR BUILDINGS:THE MINIMUM FIRE FLOW AND FLOW DURATION FOR BUILDINGS SHALL BE SPECIFIED IN TABLE B105.1
- O EXCEPTION: A REDUCTION IN REQUIRED FIRE FLOW OF UP TO 50 PERCENT, AS APPROVED, IS ALLOWED WHEN THE BUILDING IS PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM INSTALLED, THE REDUCTION MAY BE UP TO 75 PERCENT. THE RESULTING FIRE FLOW SHALL NOT BE LESS THAN 1,500 GPM FOR THE PRESCRIBED DURATION AS SPECIFIED IN TABLE B105.1.

PER TABLE B105.1 FOR MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS: (PRIOR TO FIRE SPRINKLER REDUCTION)

CONSTRUCTION	FIRE AREA SQUARE FOOTAGE	FIRE-FLOW	FLOW DURATION
V-B	15,703 S.F	3,500 GPM	3 HOURS

PER TABLE B105.1 FOR MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS: (INCLUDES FIRE SPRINKLER REDUCTION)

CONSTRUCTION	FIRE AREA SQUARE FOOTAGE	FIRE-FLOW	FLOW DURATION
V-B	15,703 S.F	1,750 GPM	2 HOURS

I.F.C. APPENDIX C - FIRE HYDRANT LOCATIONS AND DISTRIBUTION

PER TABLE C105.1 FOR NUMBER AND DISTRIBUTION OF FIRE HYDRANTS:

FIRE-FLOW REQUIREMENT (GPM)	#OF HYDRANTS	SPACING BETWEEN HYDRANTS	MAX. DISTANCE TO ROAD OR FRONTAGE
1,750 OR LESS	1	500 FEET	250 FEET

REGISTRATION SEAL

FREDERICK J. GOGLIA — REGISTERED ARCHITECT — No. 2995 — ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

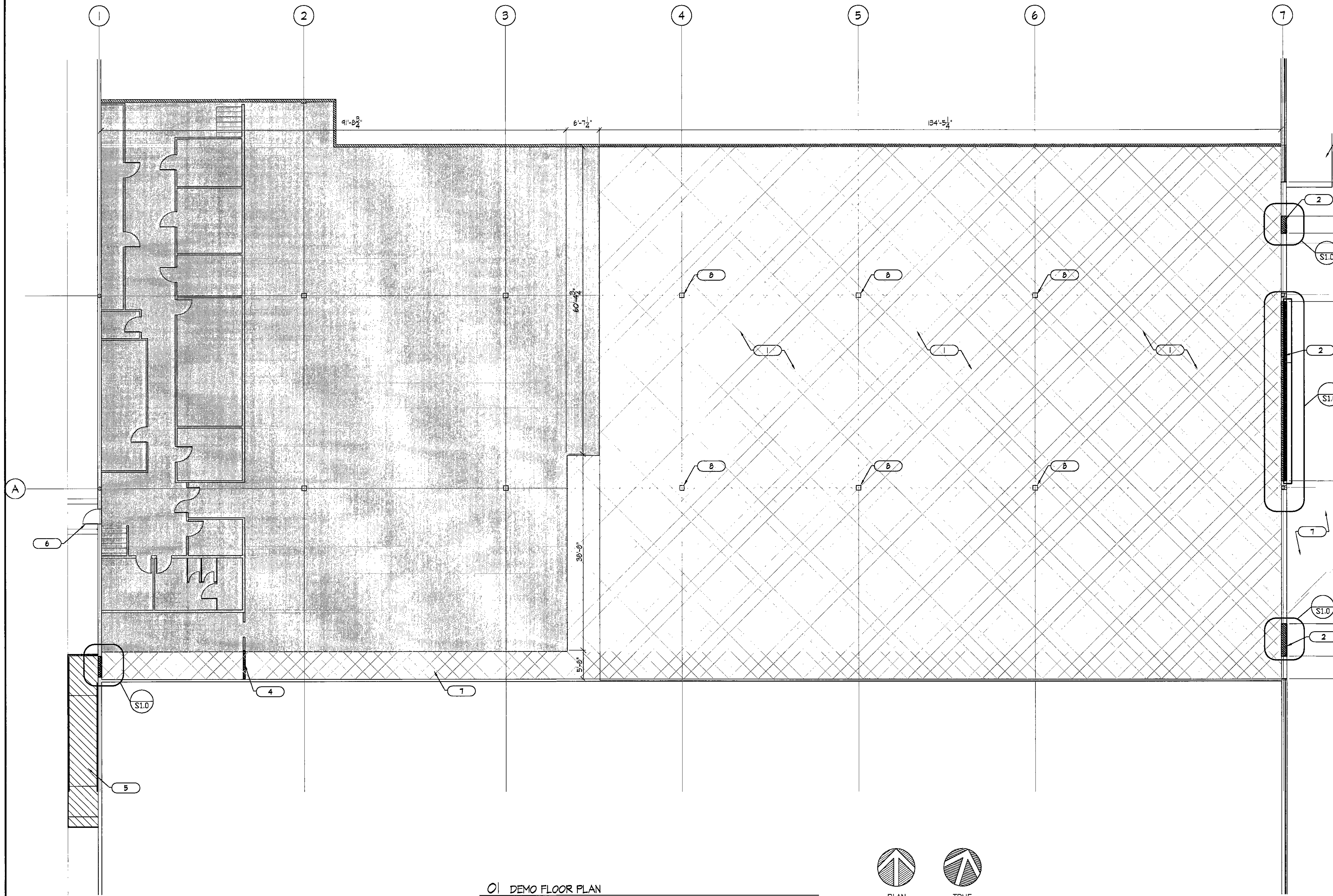
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

MEANS OF EGRESS

CS3.0



01 DEMO FLOOR PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. BOLD GRAPHICS INDICATES EXISTING ITEMS TO BE REMOVED OR RELOCATED; LIGHT GRAPHICS INDICATES EXISTING ITEMS TO REMAIN AND INCLUDE BUT ARE NOT LIMITED TO LIGHTING, SUPPLY AIR, DIFFUSSERS, RETURN AIR GRILLES, STROBES, FIRE EXIT SIGNS, FIRE ALARMS, EMERGENCY LIGHTING, P.A. SYSTEMS, SPRINKLERS, AND ALL LIFE SAFETY EQUIPMENT.
2. IF FIRE ALARMS DEVICES ARE TO BE RELOCATED, COORDINATE WITH LOCAL FIRE AUTHORITY.
3. ALL DAMAGE TO BE REPAIRED AND/OR PATCHED TO PROVIDE A SEAMLESS APPEARANCE IN SURFACE FINISH.
4. VERIFY ALL REPAIRED/REPLACE CARPET AREAS W/ CEC IN REGARDS TO FLOOR OUTLET LOCATIONSFOR NEW GAMES.
5. FURNITURE LAYOUT: DEMOLITION PLAN REPRESENTS EXISTING FURNITURE LAYOUT/SEATING COUNTS. FURNITURE PROVIDER TO VERIFY NEW LAYOUT OF FURNITURE WITH CEC PRIOR TO ORDERING AND INSTALLATION
6. REPLACED & REMOVED ITEMS: UNUSED ITEMS TO BE STORED OR DESTROYED AS DIRECTED BY CEC ENTERTAINMENT INC.
7. EXISTING DECOR: REMOVE ALL EXISTING DECOR AND INTERIOR SIGNAGE. REMOVE ANY UNUSED OUTLETS AND JUNCTION BOXES (I.E. CLOCK OUTLETS AND DECOR SHELF OUTLETS IN SHOWROOM). PATCH AND TEXTURE WALLS AS NECCESSARY. REPAINT THE INTERIOR WITH THE NEW COLOR SCHEME AND INSTALL THE NEW CEC INTERIOR SIGNAGE PACKAGE. SEE PLANS FOR DETAILS
8. IF EXISTING, REMOVE ALL POWER POLES (CONVERT TO FLOOR OUTLETS, IF TO REMAIN) REF. TO SHEET A2.0 FOR NEW OUTLET LOCATIONS.
9. VERIFY EXISTING GAME OUTLETS TO REMAIN AND THE ADDITION OF WALL, CEILING, FLOOR AND POWER POLE ELECTRICAL PER PLAN. ALSO, VERIFY THE ADDITION OF FLOOR AND WALL TELEPHONE OUTLETS PER PLAN.

DEMOLITION LEGEND

▨	HATCHING INDICATES EXISTING FLOORING TO REMAIN	▩	HATCHING INDICATES EXISTING AREAS NOT TO BE AFFECTED BY CONSTRUCTION
▧	WALLS TO BE REMOVED	▧	EXISTING SIDEWALK TO BE REMOVED

KEY NOTES

1	EXISTING VCT FLOORING TO REMAIN. REF. A2.0 FOR FINISH FLOOR DETAILS. GC. TO PREP FLOOR FOR NEW CARPET.
2	GC TO REMOVE CMU WALL WITH BRICK VENEER. GC TO VERIFY HEIGHT OF WALL TO REMAIN TO BE INCORPORATED INTO NEW FACADE. ENSURE PROPER SUPPORT FOR WALL PRIOR TO START OF DEMOLITION.
3	GC TO VERIFY LOCATION OF THE ENCROACHING CANOPY ON THE FRONT FACADE PRIOR TO DEMOLITION.
4	EXISTING PARTITION WALL TO BE REMOVED.
5	GC TO REMOVE HATCHED AREA OF SIDEWALK TO ACCOMODATE NEW RAMP.
6	EXISTING DOOR TO BE WELDED SHUT.
7	EXISTING FLOWER BED TO REMAIN.
8	EXISTING COLUMNS TO REMAIN.

REGISTRATION SEAL
FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2665
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

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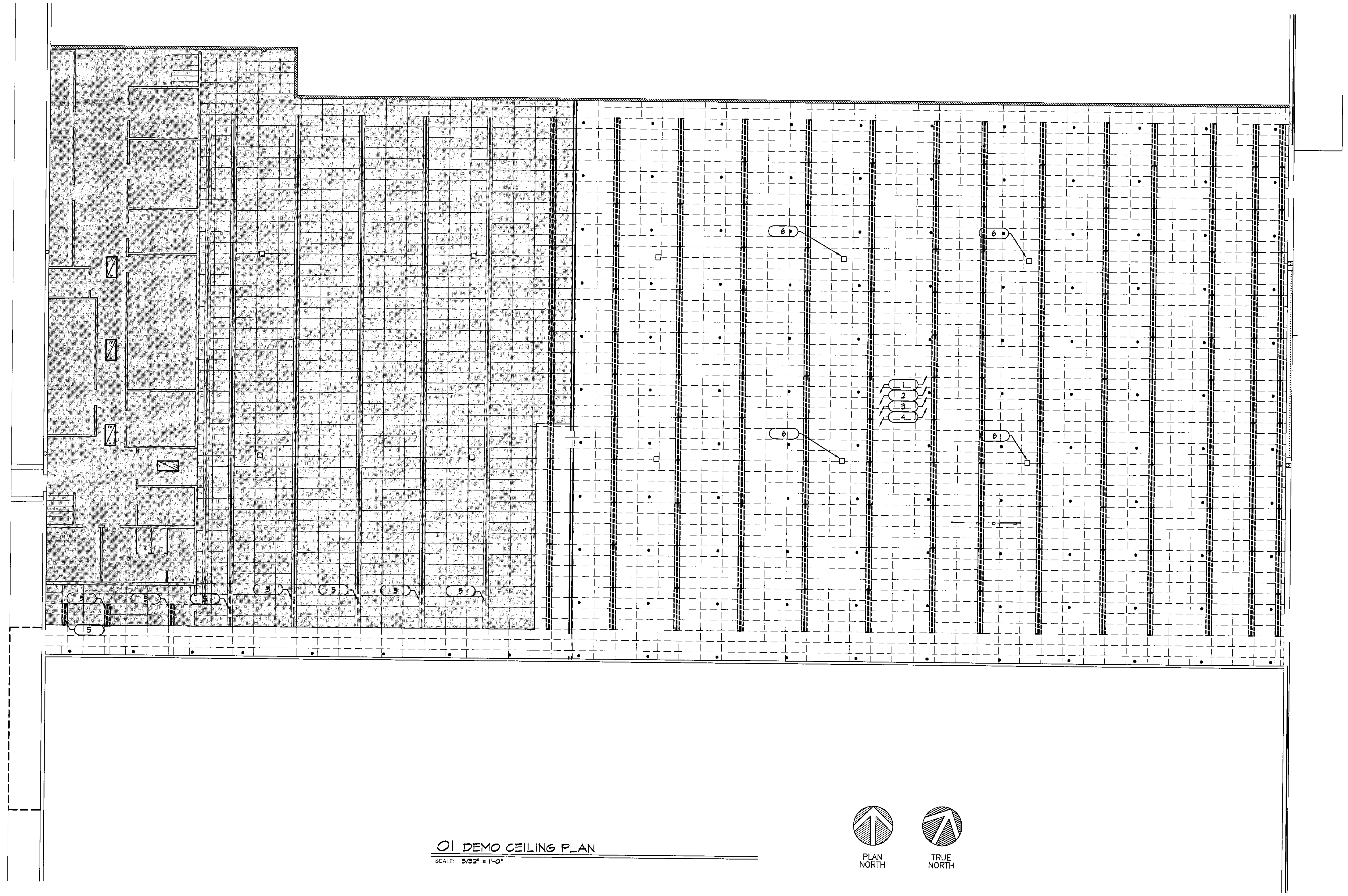
04/07/10
DEMO FLOOR PLAN

D1.0



01 DEMO CEILING PLAN
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. BOLD GRAPHICS INDICATES EXISTING ITEMS TO BE REMOVED OR RELOCATED; LIGHT GRAPHICS INDICATES EXISTING ITEMS TO REMAIN AND INCLUDE BUT ARE NOT LIMITED TO LIGHTING, SUPPLY AIR, DIFFUSSERS, RETURN AIR GRILLES, STROBES, FIRE EXIT SIGNS, FIRE ALARMS, EMERGENCY LIGHTING, P.A. SYSTEMS, SPRINKLERS, AND ALL LIFE SAFETY EQUIPMENT.
2. ALL DAMAGE TO BE REPAIRED AND/OR PATCHED TO PROVIDE A SEAMLESS APPEARANCE IN SURFACE FINISH.
3. VERIFY ALL REPAIRED/REPLACE CEILING AREAS W/ CEC IN REGARDS TO TRAC LIGHTING LOCATIONS FOR NEW GAMES.
4. REPLACED & REMOVED ITEMS: UNUSED ITEMS TO BE STORED OR DESTROYED AS DIRECTED BY CEC ENTERTAINMENT INC.
5. IF EXISTING, REMOVE ALL POWER POLES (CONVERT TO FLOOR OUTLETS, IF TO REMAIN) REF. TO SHEET A1.2 FOR NEW OUTLET LOCATIONS.
6. VERIFY EXISTING GAME OUTLETS TO REMAIN AND THE ADDITION OF WALL, CEILING, FLOOR AND POWER POLE ELECTRICAL PER PLAN. ALSO VERIFY THE ADDITION OF FLOOR AND WALL TELEPHONE OUTLETS PER PLAN.
7. REMOVAL OF FULL HEIGHT WALLS ALL CARPET, WALL FINISHES, PAINT AND WAINSCOT, CEILING TILE AND GRID AFFECTED BY REMOVAL OF FULL HEIGHT WALLS TO BE PATCHED AND REPAIRED TO MATCH NEW (OR REMAINING EXISTING) FINISHES. RELOCATE ANY DISPLACED THERMOSTATS, FIRE ALARM STROBES, ETC. PATCH AND REPAIR ALL SUB-FLOORING TO MATCH EXISTING LEVEL SURFACE.

GENERAL LEGEND

▨	HEADER TO BE REMOVED/RELOCATED	▨	HATCHING INDICATES EXISTING AREAS NOT TO BE AFFECTED BY CONSTRUCTION
▬	EXISTING LIGHTS TO BE REMOVED	▦	HATCHING INDICATES EXISTING CEILING GRID TO BE REMOVED
●	EXISTING SPRINKLER TO BE ADJUSTED FOR NEW CEILING HEIGHT		

KEY NOTES

1	GC TO REMOVE/REPLACE ALL LIGHTING IN AREAS NOTED ON SHEET D2.0, REF SHEET A3.0 FOR LIGHTING PLAN & E1.0 FOR LIGHTING SPECS.
2	GC TO REMOVE/REPLACE CEILING TILE AND GRID. REF. A3.0 FOR RCP DETAILS.
3	GC TO REMOVE/REPLACE HVAC SYSTEM, REF. M1.1 FOR DETAILS.
4	ALL EXISTING SPRINKLERS TO BE ADJUSTED TO ACCOMODATE NEW CEILING HEIGHT. REF. A3.0 FOR RCP DETAILS.
5	EXISTING LIGHTS TO BE REMOVED IN AREA NOT AFFECTED BY CONSTRUCTION AS NOTED ON SHEET D2.0. TO ACCOMODATE EGRESS CORRIDOR.
6	EXISTING COLUMNS TO REMAIN.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

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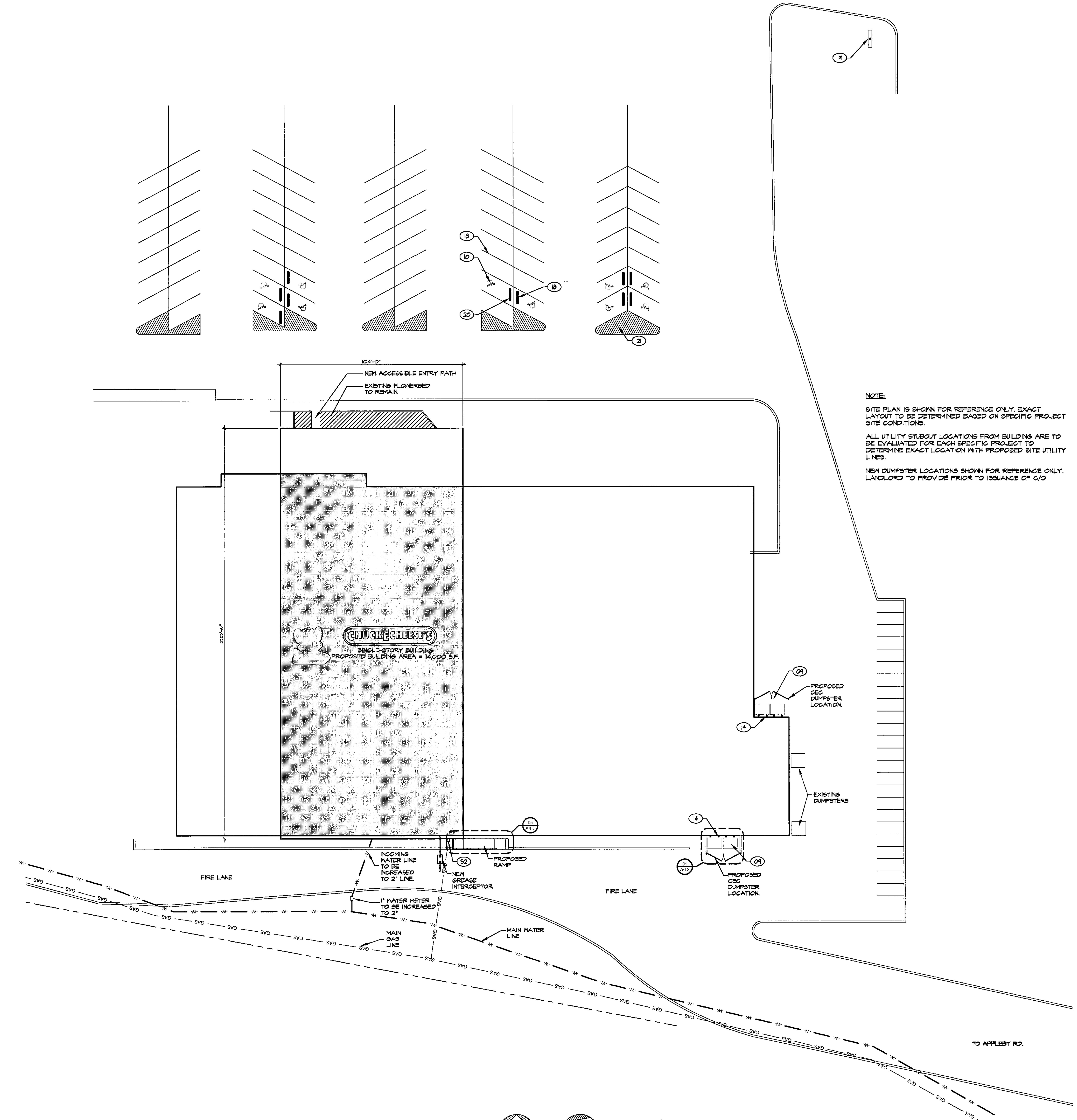
DEMO CEILING PLAN

D2.0


19
13
10
18
20
21
104'-0"
NEW ACCESSIBLE ENTRY PATH
EXISTING FLOWERBED TO REMAIN
225'-4"
CHUCKECHEESE'S
SINGLE-STORY BUILDING
PROPOSED BUILDING AREA = 14,000 S.F.
09
PROPOSED CEC DUMPSTER LOCATION.
14
EXISTING DUMPSTERS
05 A4.0
INCOMING WATER LINE TO BE INCREASED TO 2" LINE.
32
PROPOSED RAMP
NEW GREASE INTERCEPTOR
1" WATER METER TO BE INCREASED TO 2"
MAIN GAS LINE
MAIN WATER LINE
FIRE LANE
FIRE LANE
01 A0.3
14
09
PROPOSED CEC DUMPSTER LOCATION.
GAS
-W-
TO APPLEBY RD.

NOTE:

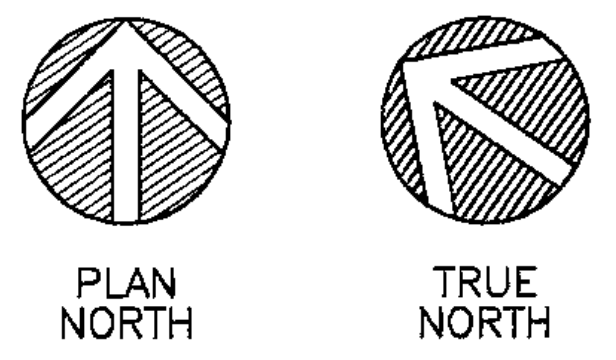
SITE PLAN IS SHOWN FOR REFERENCE ONLY. EXACT LAYOUT TO BE DETERMINED BASED ON SPECIFIC PROJECT SITE CONDITIONS.

ALL UTILITY STUBOUT LOCATIONS FROM BUILDING ARE TO BE EVALUATED FOR EACH SPECIFIC PROJECT TO DETERMINE EXACT LOCATION WITH PROPOSED SITE UTILITY LINES.

NEW DUMPSTER LOCATIONS SHOWN FOR REFERENCE ONLY. LANDLORD TO PROVIDE PRIOR TO ISSUANCE OF C/O

01 ARCHITECTURAL SITE PLAN

SCALE: 1/16" = 1'-0"



(##) SITE PLAN KEYNOTES

EXAMPLE: A0.24 = (24)

A0.01: ASPHALT PAVING - SEE CIVIL DWGS, SOILS REPORT AND SPECIFICATIONS. PROVIDE THICKENED PAVING @ DRIVE & TRUCK ROUTES

A0.02: 4" THICK, 3,000 PSI CONCRETE WALK AND PAVING, SLOPE AWAY FROM THE BUILDING MINIMUM 1/4" PER 1'-0" - SEE DETAIL 06/A0.2

A0.03: PAVING EXPANSION JOINT - SEE DETAIL 07/A0.2.

A0.04: TOOLED CONTROL JOINT - SEE DETAIL 11/A0.2

A0.05: 6" HIGH CONCRETE CURB/GUTTER - SEE CIVIL DRAWINGS.

A0.06: TYPICAL CONCRETE HANDICAP RAMP - SEE DETAIL 02/A0.2

A0.07: END OF WALK CONCRETE HANDICAP RAMP - SEE DETAIL 02/A0.2.

A0.08: SLOPE ASPHALT PAVING TO MATCH CURB ELEVATION ALONG HANDICAP PARKING AREAS WHERE POSSIBLE. PROVIDE HANDICAP RAMP AT AISLEWAYS WHEN FLUSHING THE PAVEMENT IS NOT AN OPTION.

A0.09: 6" CONCRETE APRON AT TRASH ENCLOSURE (3,500 PSI CONCRETE)

A0.10: HANDICAP ACCESSIBLE PARKING STALLS - SEE DETAIL 01/A0.2.

A0.11: 5'-0" WIDE PAINTED PEDESTRIAN CROSSWALK

A0.12: PAINTED DIRECTIONAL ARROW - SEE DETAIL 12/A0.2.

A0.13: 4" WIDE PARKING LOT STRIPING - SEE CIVIL DRAWINGS AND SPECIFCATIONS.

A0.14: CONCRETE FILLED STEEL PIPE BOLLARD WHERE REQUIRED- SEE DETAIL 10/A0.2.

A0.15: TRENCH DRAIN W/ GALVANIZED STEEL COVER - SEE DETAIL 14/A0.2

A0.16: STEEL PIPE BIKE RACK - SEE DETAIL 15/A0.2.

A0.17: STOP SIGN - SEE DETAIL 04/A0.2.

A0.18: HANDICAP PARKING SIGN - SEE DETAIL 03/A0.2.

A0.19: "CHUCK E CHEESE" PYLON SIGN BY THE OWNER- SEE DETAIL 13/A0.2.

A0.20: PRECAST CONCRETE WHEEL STOP- SEE DETAIL 08/A0.2.

A0.21: PAINTED PARKING ISLAND

A0.32: WATER LINE - GC. TO INCREASE PATCH AND REPAIR ASPHALT AS NEEDED.

A0.30: SITE LIGHT POLE - SEE ELECTRICAL DRAWINGS

A0.31: FIRE HYDRANT - PER JURISDICTION REQUIREMENTS

A0.32: GAS METER - SUPPLIED AND INSTALLED BY GAS COMPANY. COORDINATE INSTALLATION/CONNECTION & LOCATION W/GAS COMPANY. SEAL ALL PENETRATIONS. PROVIDE BOLLARDS WHEN ADJACENT TO DRIVES. CONTACT: RANDY DRAKE 1811 E. BORICK DR. FAYETVILLE, AR 72703, 479-435-0763

A0.33: ELECTRICAL SERVICE TRANSFORMER PER LOCAL POWER COMPANY REQUIREMENTS.

A0.34: DOMESTIC WATER LINE PER LOCAL WATER COMPANY REQUIREMENTS.

A0.35: SANITARY WASTE LINE PER LOCAL SEWER COMPANY REQUIREMENTS

A0.36: GREASE INTERCEPTOR - SEE PLUMBING DRAWINGS.

A0.37: FIRE SPRINKLER WATER LINE PER LOCAL FIRE DEPARTMENT REQUIREMENTS.

A0.38: FIRE DEPARTMENT CONNECTION, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH THE FIRE DEPARTMENT PRIOR TO INSTALLATION.

SITE PARKING CALCULATIONS

REQUIRED PARKING
141 SPACES
6 ACCESSIBLE

PROVIDED PARKING
159 SPACES
6 ACCESSIBLE

LANDSCAPE AREA CALCULATIONS

REQUIRED LANDSCAPE AREA N/A
SITE SPECIFIC - T.B.D.

PROPOSED LANDSCAPE AREA N/A
SITE SPECIFIC - T.B.D.

SITE PLAN LEGEND

▩	BUILDING FOOTPRINT	⊠	ELECTRICAL SERVICE TRANSFORMER	═	6" HIGH CONCRETE CURB W/ CONCRETE PAN
▤	CONCRETE PAVING	■-●-■	LIGHT POLE - DUAL FIXTURE	▥	TRENCH DRAIN W/ COVER
▨	LOADING AREA STRIPING	●-■	LIGHT POLE - SINGLE FIXTURE	◡	TYPICAL HANDICAP RAMP
—— – – ——	PROPERTY LINE	○ ○	GREASE INTERCEPTOR	▥	END OF WALK HANDICAP RAMP
— — — —	BUILDING SETBACK LINE	FDC	FIRE DEPARTMENT CONNECTION	♿	PAINTED HANDICAP SYMBOL
- - - - - -	UTILITY EASEMENT LINE	●	PYLON SIGN	➡	PAINTED DIRECTIONAL ARROW
—— -W- ——	WATER LINE UTILITY	H.C.	POLE MOUNTED HANDICAP PARKING SIGN	▌▌▌	PAINTED CROSSWALK
—— SS ——	SANITARY LINE UTILITY	S.S.	POLE MOUNTED STOP SIGN	E|J	PAVING EXPANSION JOINT
—— STM ——	STORM LINE UTILITY	BIKE	BIKE RACK	L/S	LANDSCAPED AREA
—— GAS ——	GAS LINE UTILITY				
—— -E- ——	ELECTRICAL LINE UTILITY				
—— TEL —— TEL ——	TELEPHONE LINE UTILITY				
—HC——HC—	HANDICAP ACCESSIBLE ROUTE				

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
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ARKANSAS

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ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
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www.arcv.com

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REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
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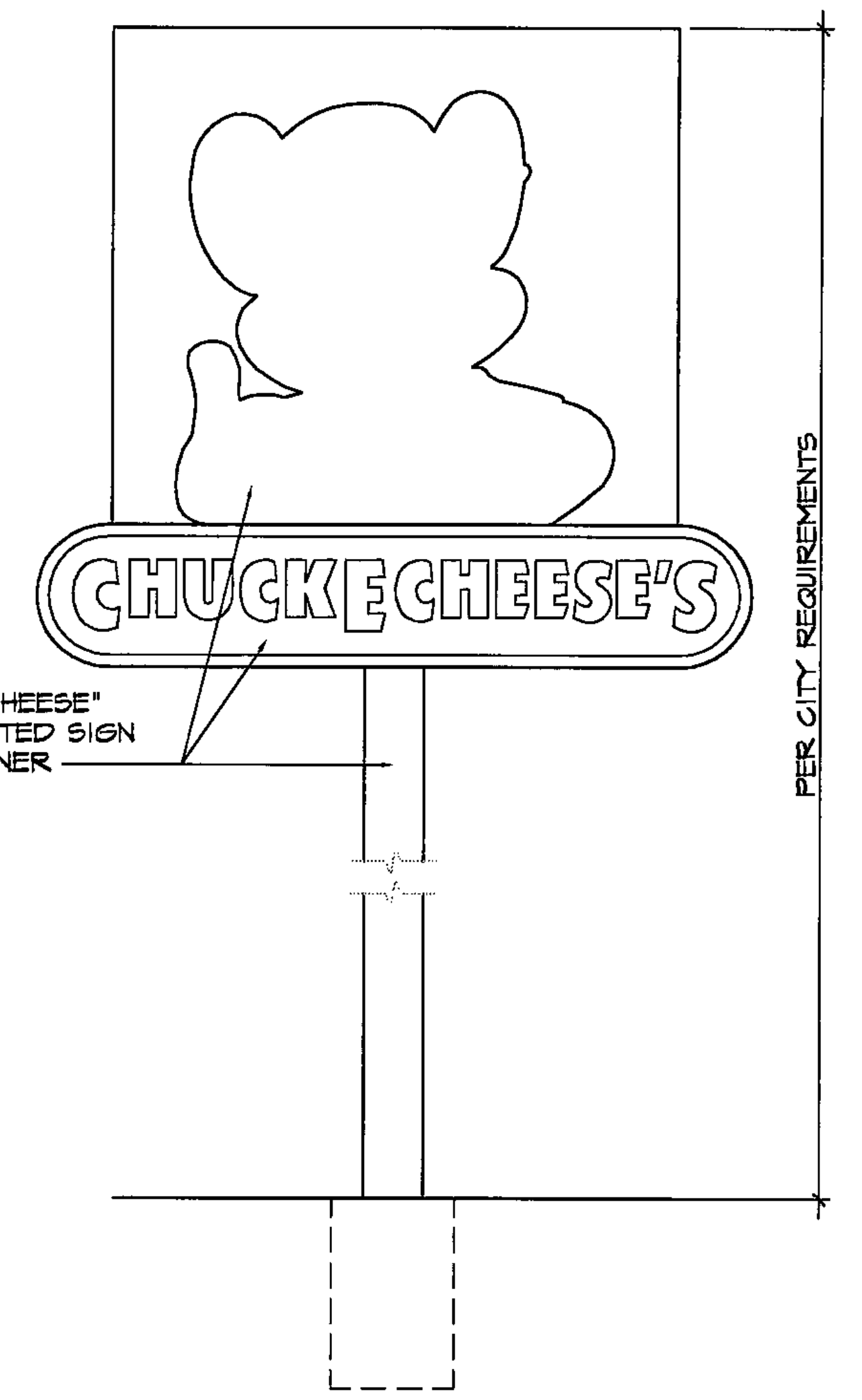
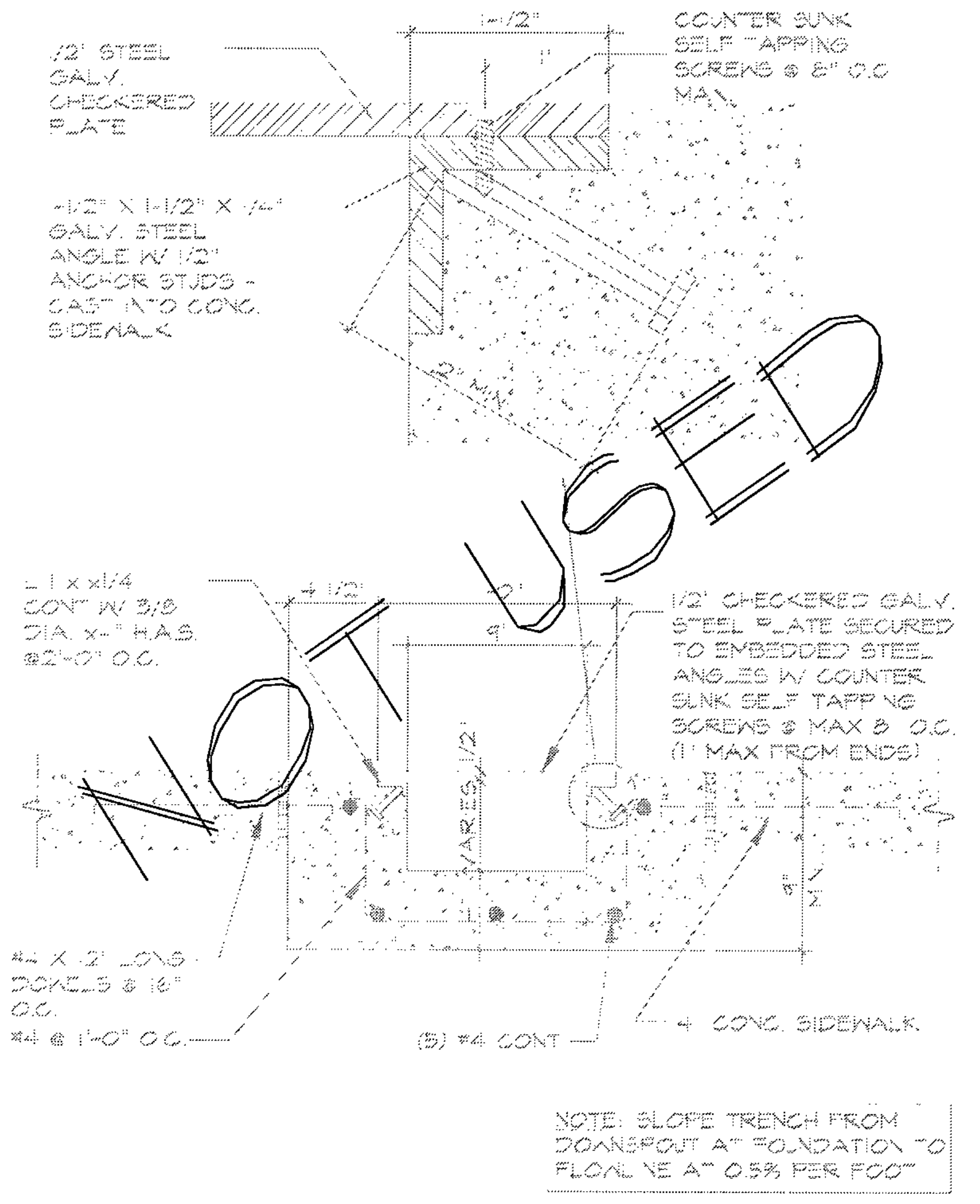
ARCHITECTURAL SITE PLAN

A0.1



13 PYLON SIGN (SITE SPECIFIC)

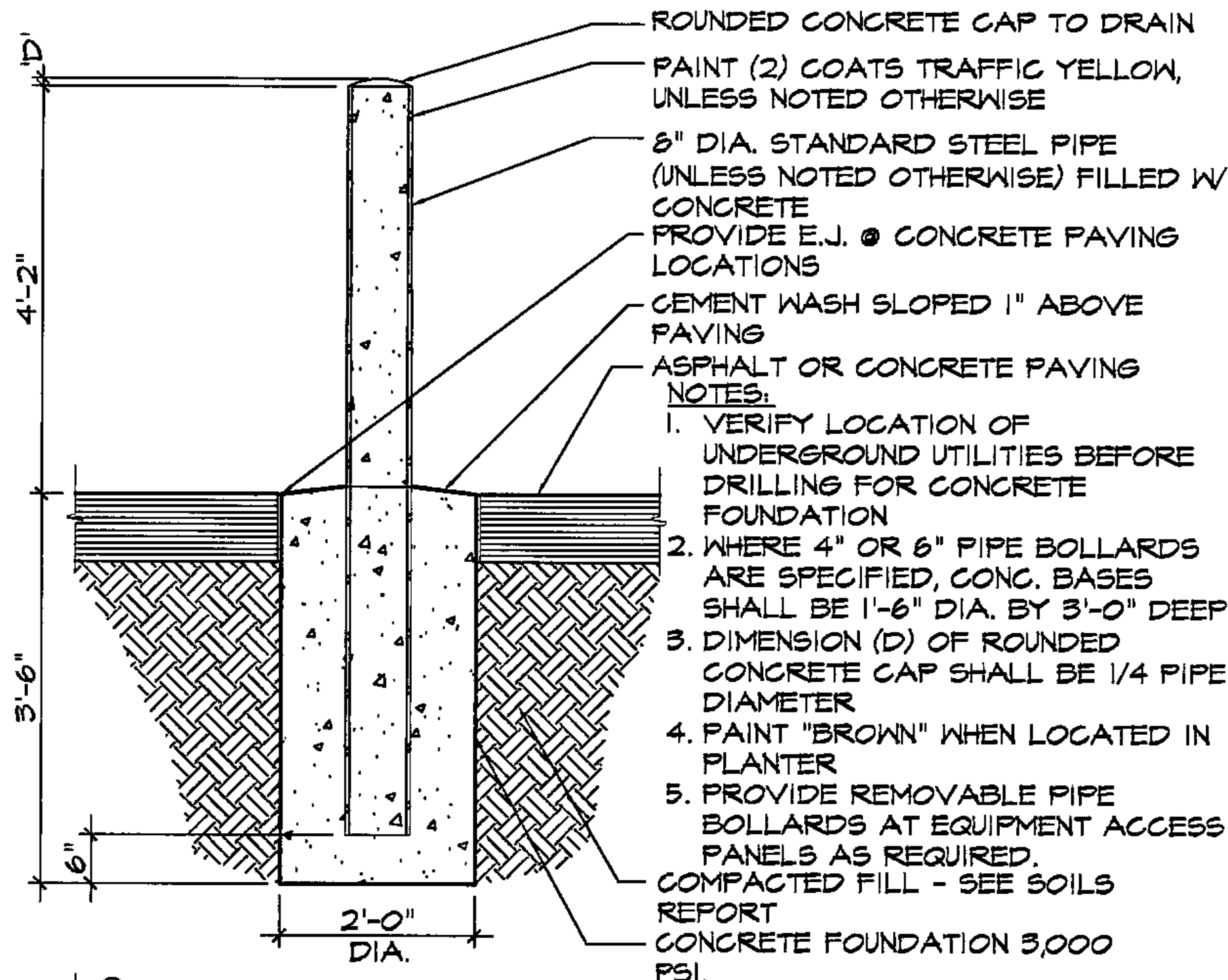
SCALE: 1/2" = 1'-0"


1-1/2"
COUNTER SUNK SELF TAPPING SCREWS @ 6" O.C. MAX.
1/2" STEEL GALV. CHECKERED PLATE
1-1/2" X 1-1/2" X 1/4" GALV. STEEL ANGLE W/ 1/2" ANCHOR STUDS - CAST INTO CONC. SIDEWALK
2" MIN.
L 1 x x1/4 CONT W/ 3/8 DIA. x-" H.A.S. @2'-0" O.C.
4 1/2"
1/2" CHECKERED GALV. STEEL PLATE SECURED TO EMBEDDED STEEL ANGLES W/ COUNTER SUNK SELF TAPPING SCREWS @ MAX 8" O.C. (1" MAX FROM ENDS)
VARIES 1/2"
#4 X 12" LONG DOWELS @ 16" O.C.
#4 @ 1'-0" O.C.
(5) #4 CONT
4" CONC. SIDEWALK
NOT USED

NOTE: SLOPE TRENCH FROM DOWNSPOUT AT FOUNDATION TO FLOWLINE AT 0.5% PER FOOT

14 TRENCH DRAIN (REGION SPECIFIC)

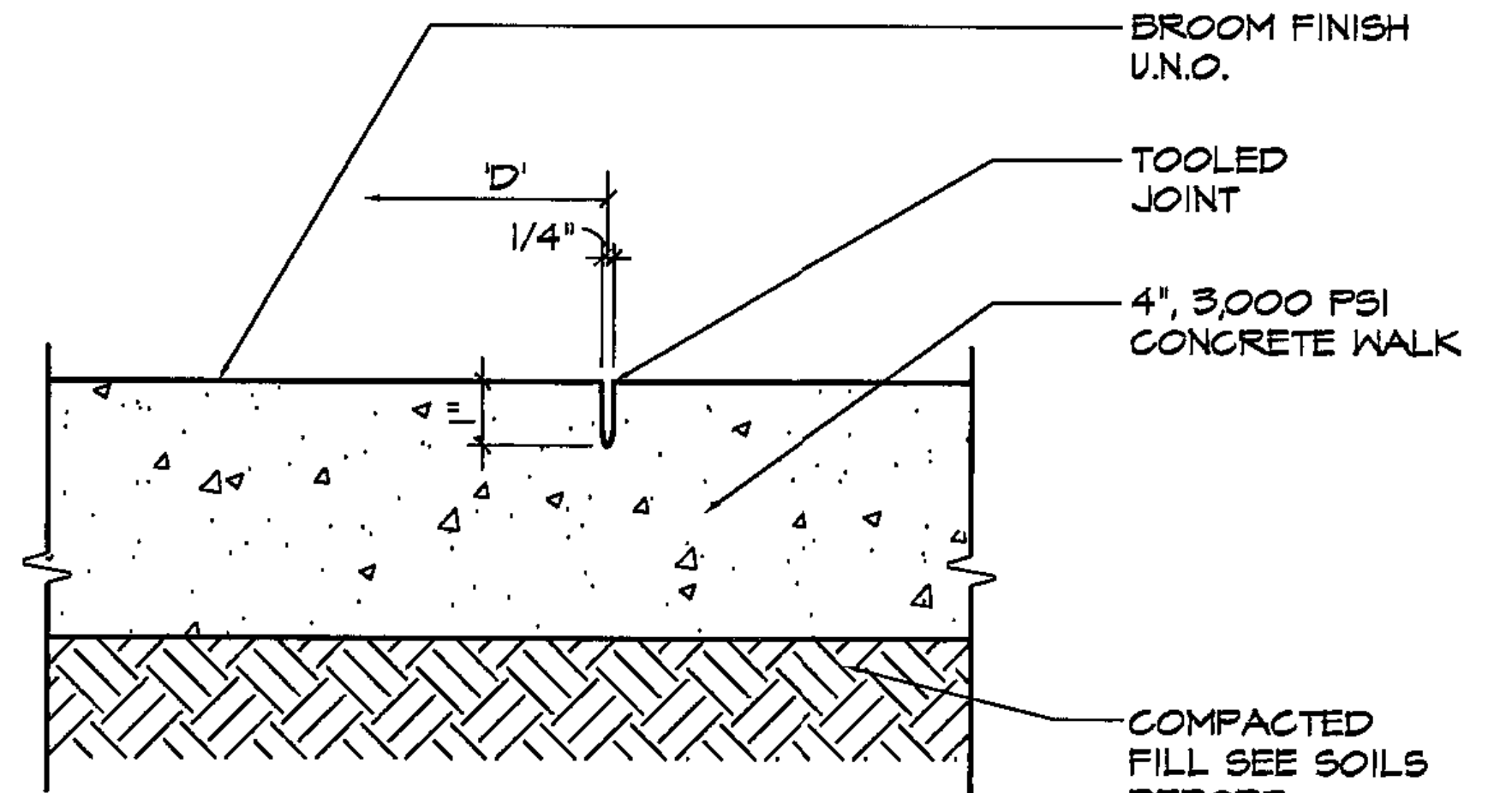
SCALE: 1-1/2" = 1'-0"


'D'
4'-2"
3'-6"
6"
2'-0" DIA.
ROUNDED CONCRETE CAP TO DRAIN
PAINT (2) COATS TRAFFIC YELLOW, UNLESS NOTED OTHERWISE
8" DIA. STANDARD STEEL PIPE (UNLESS NOTED OTHERWISE) FILLED W/ CONCRETE
PROVIDE E.J. @ CONCRETE PAVING LOCATIONS
CEMENT WASH SLOPED 1" ABOVE PAVING
ASPHALT OR CONCRETE PAVING
COMPACTED FILL - SEE SOILS REPORT
CONCRETE FOUNDATION 3,000 PSI.

NOTES:
1. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING FOR CONCRETE FOUNDATION
2. WHERE 4" OR 6" PIPE BOLLARDS ARE SPECIFIED, CONC. BASES SHALL BE 1'-6" DIA. BY 3'-0" DEEP
3. DIMENSION (D) OF ROUNDED CONCRETE CAP SHALL BE 1/4 PIPE DIAMETER
4. PAINT "BROWN" WHEN LOCATED IN PLANTER
5. PROVIDE REMOVABLE PIPE BOLLARDS AT EQUIPMENT ACCESS PANELS AS REQUIRED.

10 EXTERIOR PIPE BOLLARD

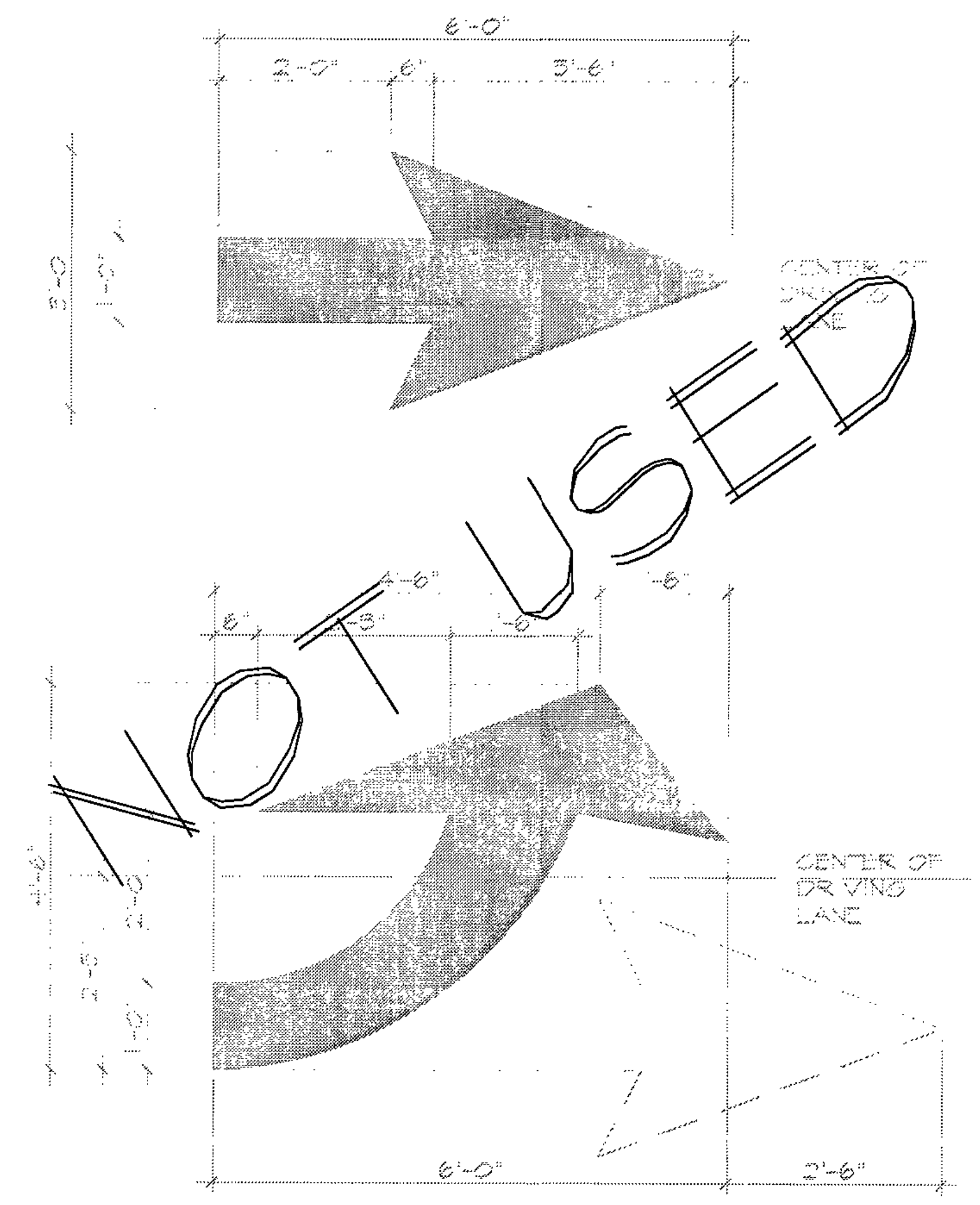
SCALE: 1/2" = 1'-0"



NOTE: SPACE TOOLED JOINTS AT A DISTANCE "D" EQUAL TO WIDTH OF SIDEWALK OR AS INDICATED ON PLANS UNLESS NOTED OTHERWISE.

11 TYPICAL CONCRETE C.J. DETAIL

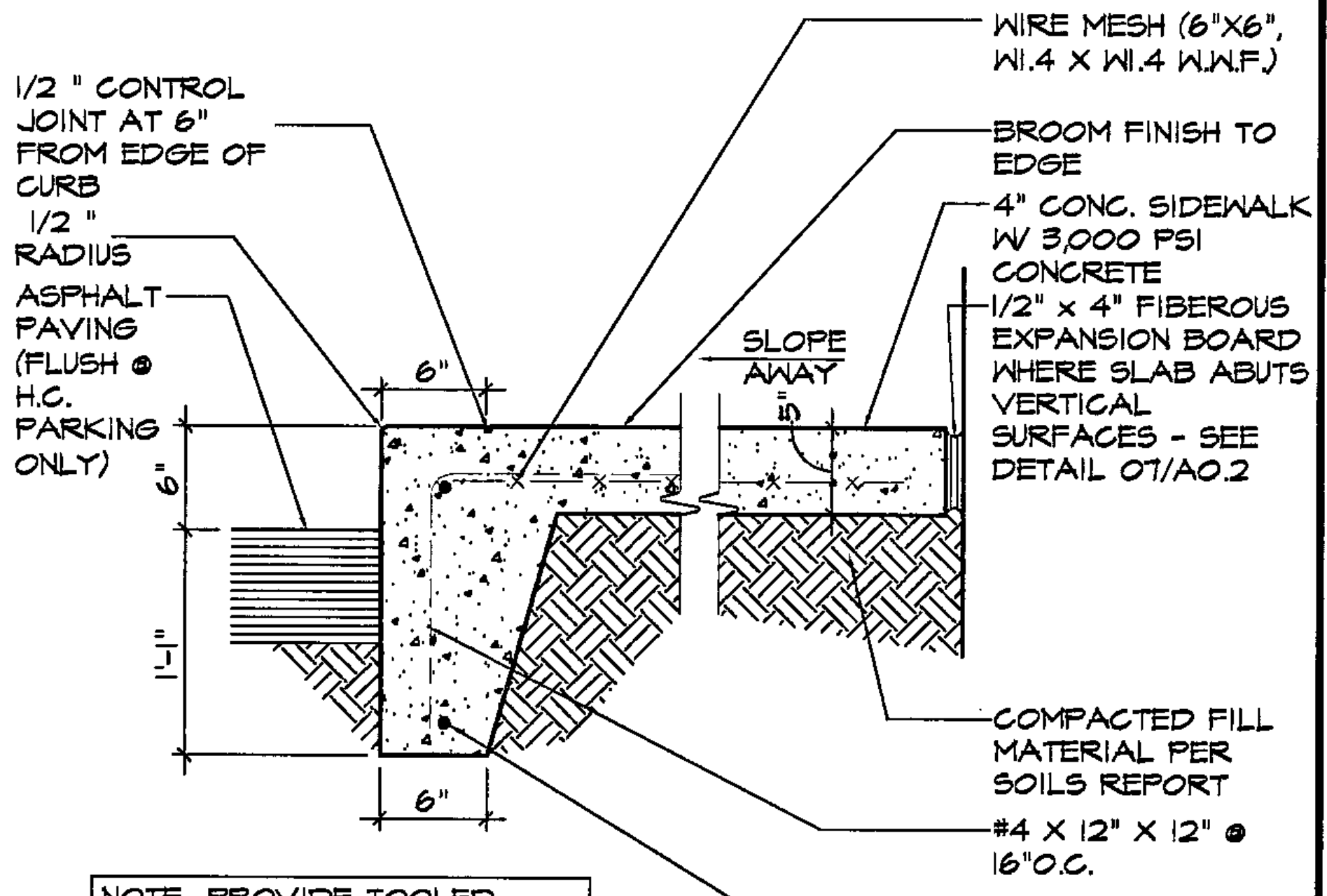
SCALE: 3" = 1'-0"



NOTE: PAINT ARROWS WITH (2) COATS OF WHITE TRAFFIC PAINT AT PARKING AREAS AND PAINT WITH (2) COATS OF WHITE BEADED REFLECTIVE PAINT AT CURB CUTS, DRY BETWEEN COATS.

12 PAINTED DIRECTIONAL ARROW

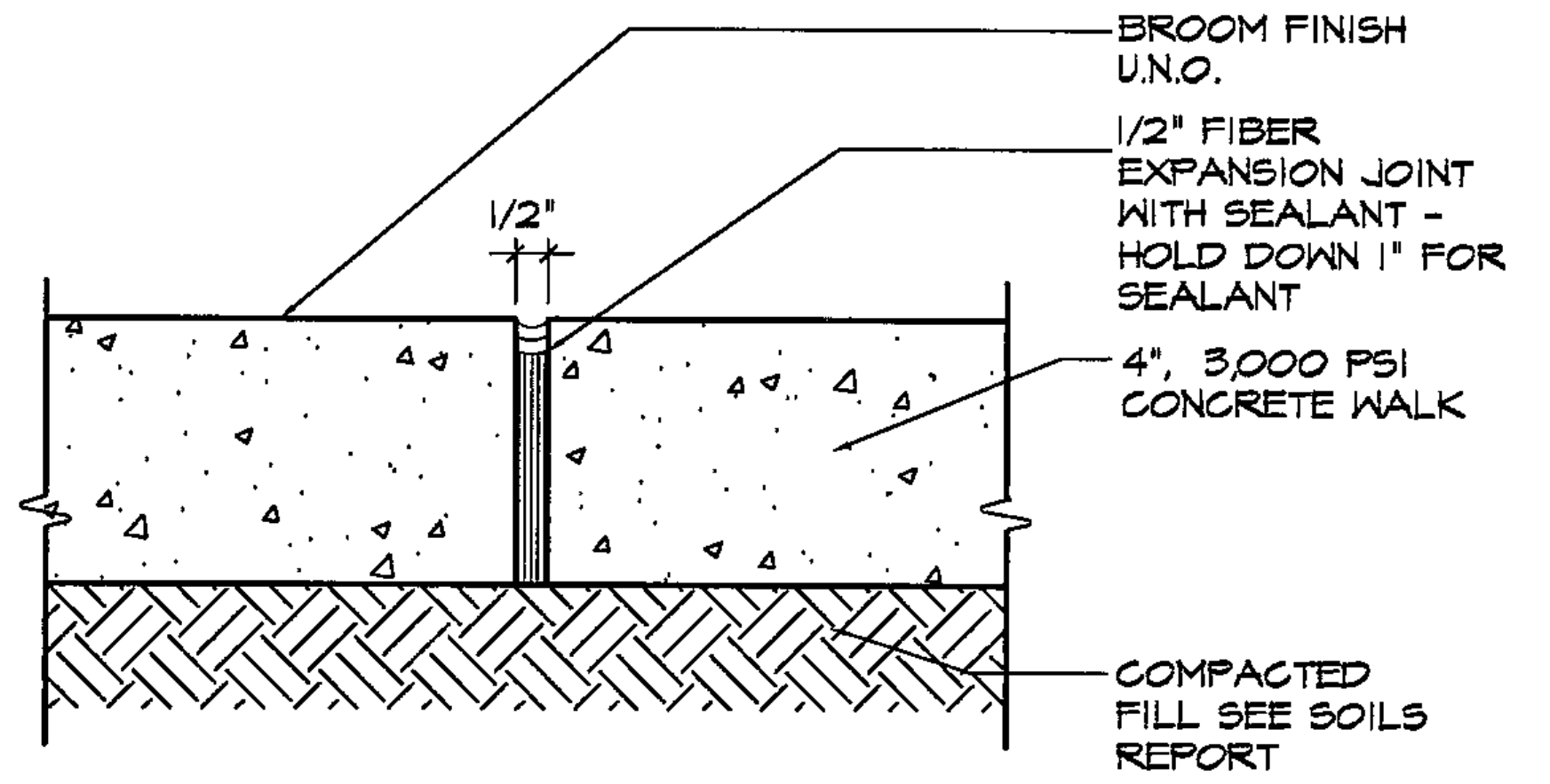
SCALE: 1/2" = 1'-0"


1/2 " CONTROL JOINT AT 6" FROM EDGE OF CURB
1/2 " RADIUS
ASPHALT PAVING (FLUSH @ H.C. PARKING ONLY)
6"
6"
1'-1"
6"
SLOPE AWAY
WIRE MESH (6"X6", W1.4 X W1.4 W.W.F.)
BROOM FINISH TO EDGE
4" CONC. SIDEWALK W/ 3,000 PSI CONCRETE
1/2" x 4" FIBEROUS EXPANSION BOARD WHERE SLAB ABUTS VERTICAL SURFACES - SEE DETAIL 07/A0.2
COMPACTED FILL MATERIAL PER SOILS REPORT
#4 X 12" X 12" @ 16"O.C.
#5 CONT. AT TOP AND BOTTOM

NOTE: PROVIDE TOOLED CONTROL AND CONSTRUCTION JOINTS AS INDICATED.

06 CURB / WALK DETAIL

SCALE: 1" = 1'-0"

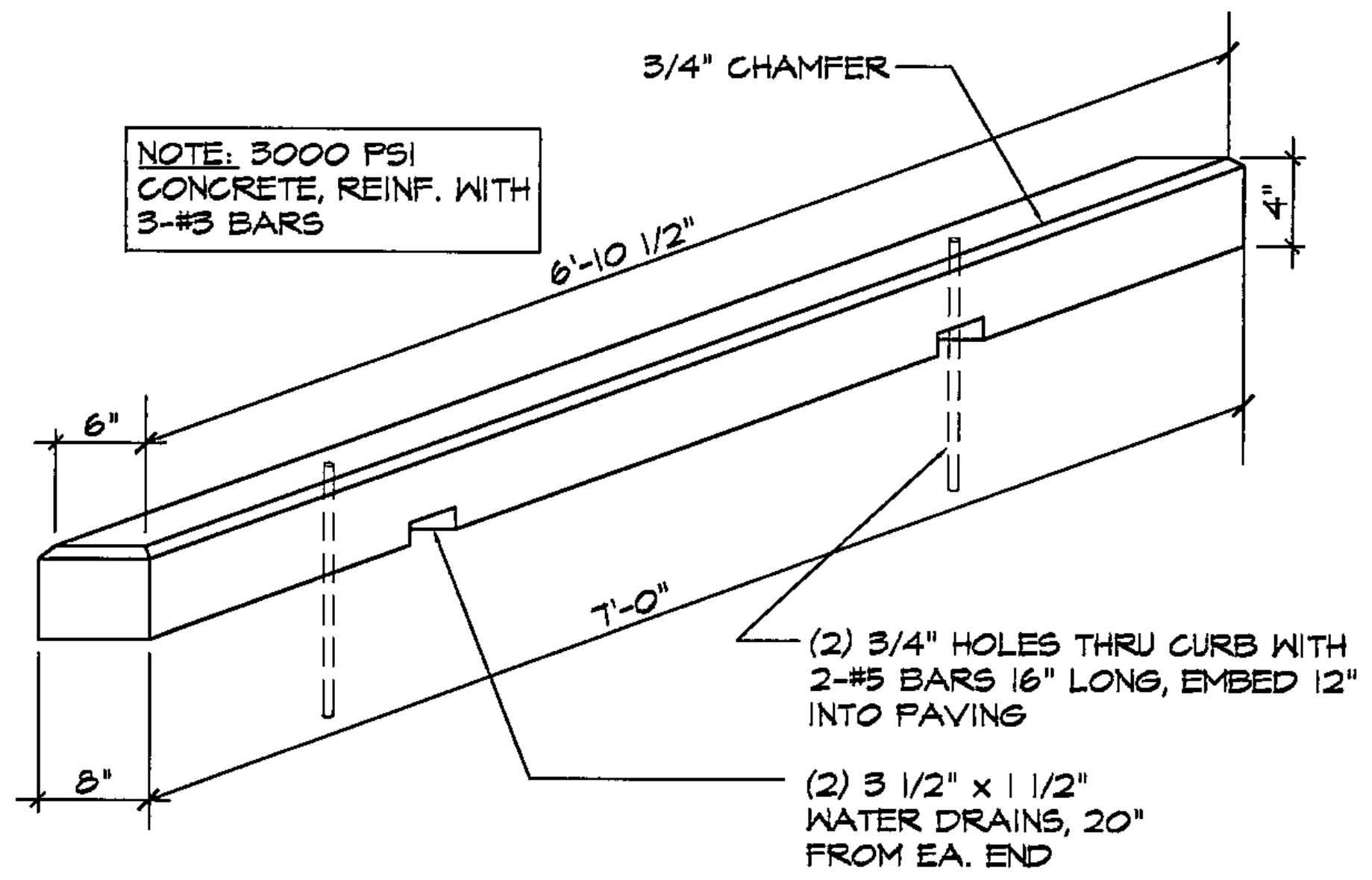

BROOM FINISH U.N.O.
1/2"
1/2" FIBER EXPANSION JOINT WITH SEALANT - HOLD DOWN 1" FOR SEALANT
4", 3,000 PSI CONCRETE WALK
COMPACTED FILL SEE SOILS REPORT

NOTE: PROVIDE EXPANSION JOINTS AT 25' O.C. MAX. IN EITHER DIRECTION WITH SQUARE FOOTAGE LESS THAN 400 S.F. AND AT CURVES, TANGENTS, AND CORNERS (UNLESS NOTED OTHERWISE).

07 TYPICAL CONCRETE E.J. DETAIL

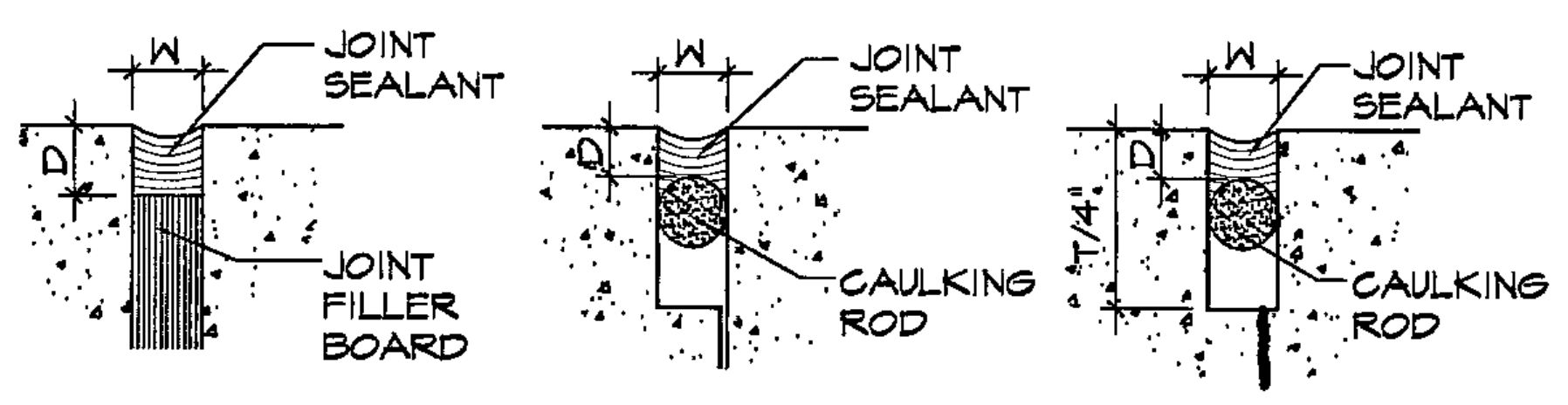
SCALE: 3" = 1'-0"

NOTE: 3000 PSI CONCRETE, REINF. WITH 3-#3 BARS


3/4" CHAMFER
6'-10 1/2"
6"
4"
7'-0"
8"
(2) 3/4" HOLES THRU CURB WITH 2-#5 BARS 16" LONG, EMBED 12" INTO PAVING
(2) 3 1/2" x 1 1/2" WATER DRAINS, 20" FROM EA. END

08 WHEEL STOP DETAIL

SCALE: 3/4" = 1'-0"



EXPANSION JOINT
W = 1/2" ; 1/8" D = 3/8"

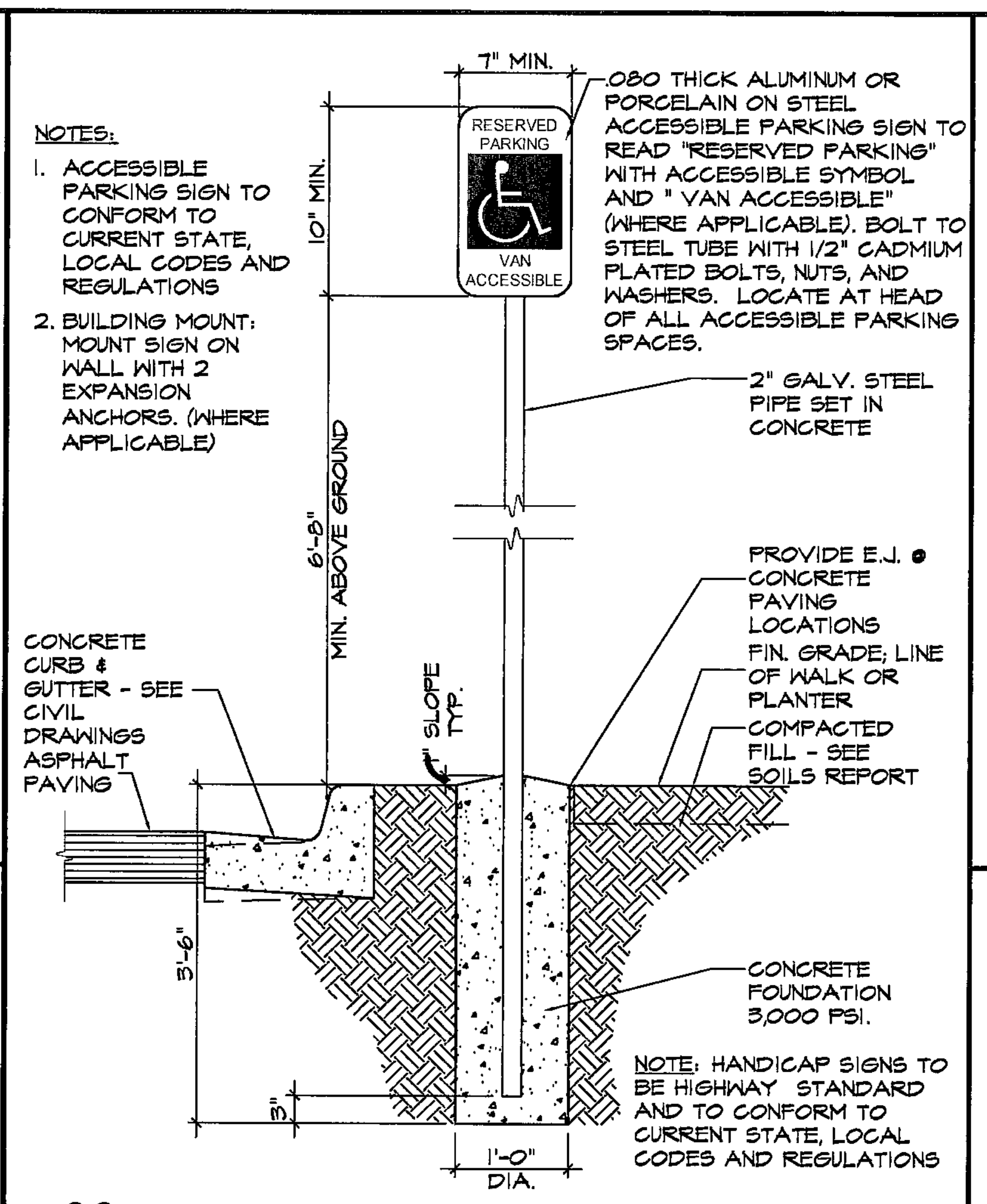
CONSTRUCTION JOINT
W = 3/8" ; 1/8" D = 1/4"

CONTRACTION JOINT
W = 3/8" ; 1/8" D = 1/4"
D = SEALANT DEPTH T = SLAB THICKNESS W = JOINT WIDTH

09 TYPICAL PAVING JOINTS

SCALE: 1" = 1'-0"

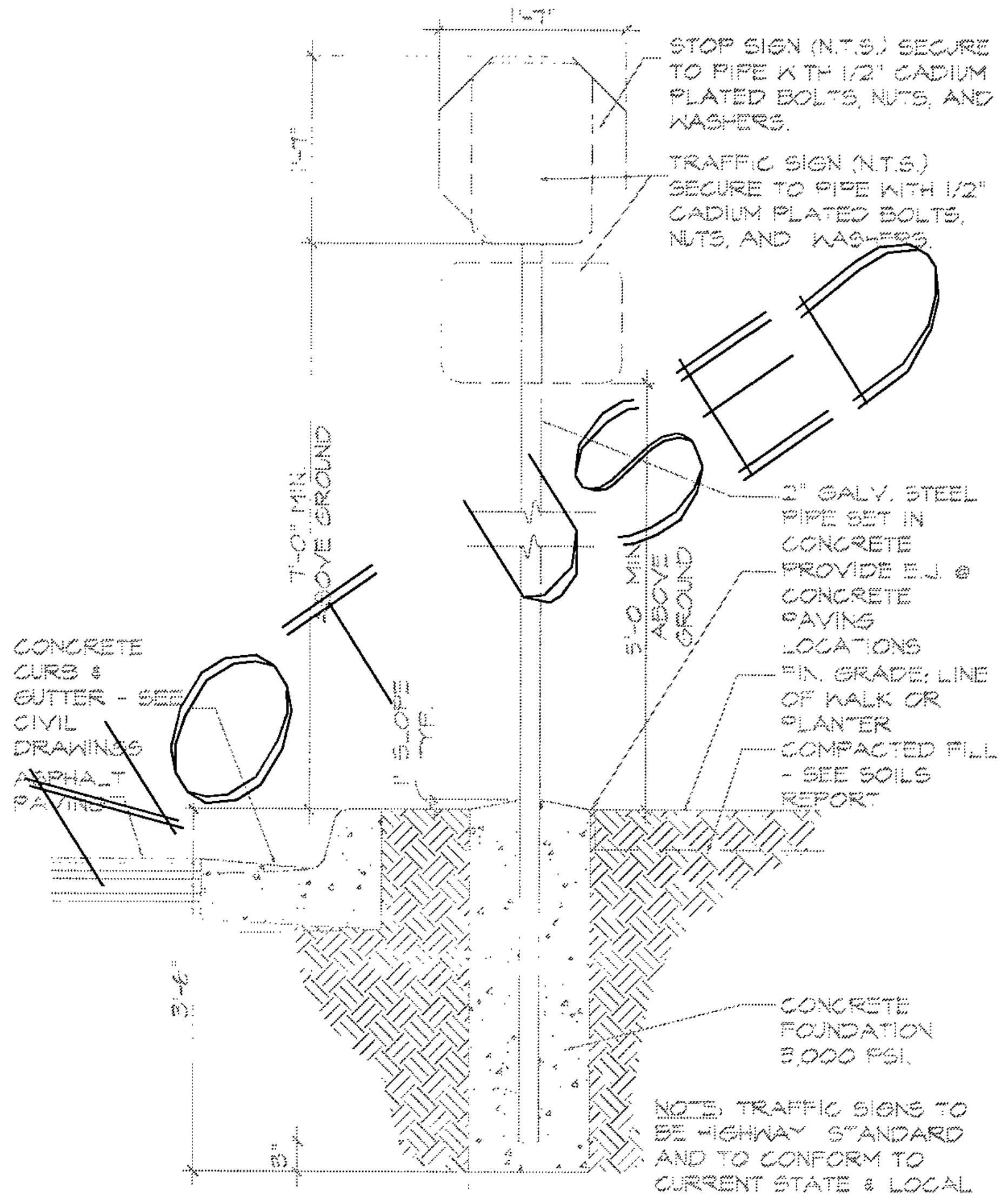
NOTES:
1. ACCESSIBLE PARKING SIGN TO CONFORM TO CURRENT STATE, LOCAL CODES AND REGULATIONS
2. BUILDING MOUNT: MOUNT SIGN ON WALL WITH 2 EXPANSION ANCHORS. (WHERE APPLICABLE)


7" MIN.
RESERVED PARKING
VAN ACCESSIBLE
10" MIN.
6'-8" MIN. ABOVE GROUND
1" SLOPE TYP.
3'-6"
3"
1'-0" DIA.
.080 THICK ALUMINUM OR PORCELAIN ON STEEL ACCESSIBLE PARKING SIGN TO READ "RESERVED PARKING" WITH ACCESSIBLE SYMBOL AND " VAN ACCESSIBLE" (WHERE APPLICABLE). BOLT TO STEEL TUBE WITH 1/2" CADMIUM PLATED BOLTS, NUTS, AND WASHERS. LOCATE AT HEAD OF ALL ACCESSIBLE PARKING SPACES.
2" GALV. STEEL PIPE SET IN CONCRETE
CONCRETE CURB & GUTTER - SEE CIVIL DRAWINGS
ASPHALT PAVING
PROVIDE E.J. @ CONCRETE PAVING LOCATIONS
FIN. GRADE; LINE OF WALK OR PLANTER
COMPACTED FILL - SEE SOILS REPORT
CONCRETE FOUNDATION 3,000 PSI.

NOTE: HANDICAP SIGNS TO BE HIGHWAY STANDARD AND TO CONFORM TO CURRENT STATE, LOCAL CODES AND REGULATIONS

03 ACCESSIBLE PARKING SIGN DETAIL

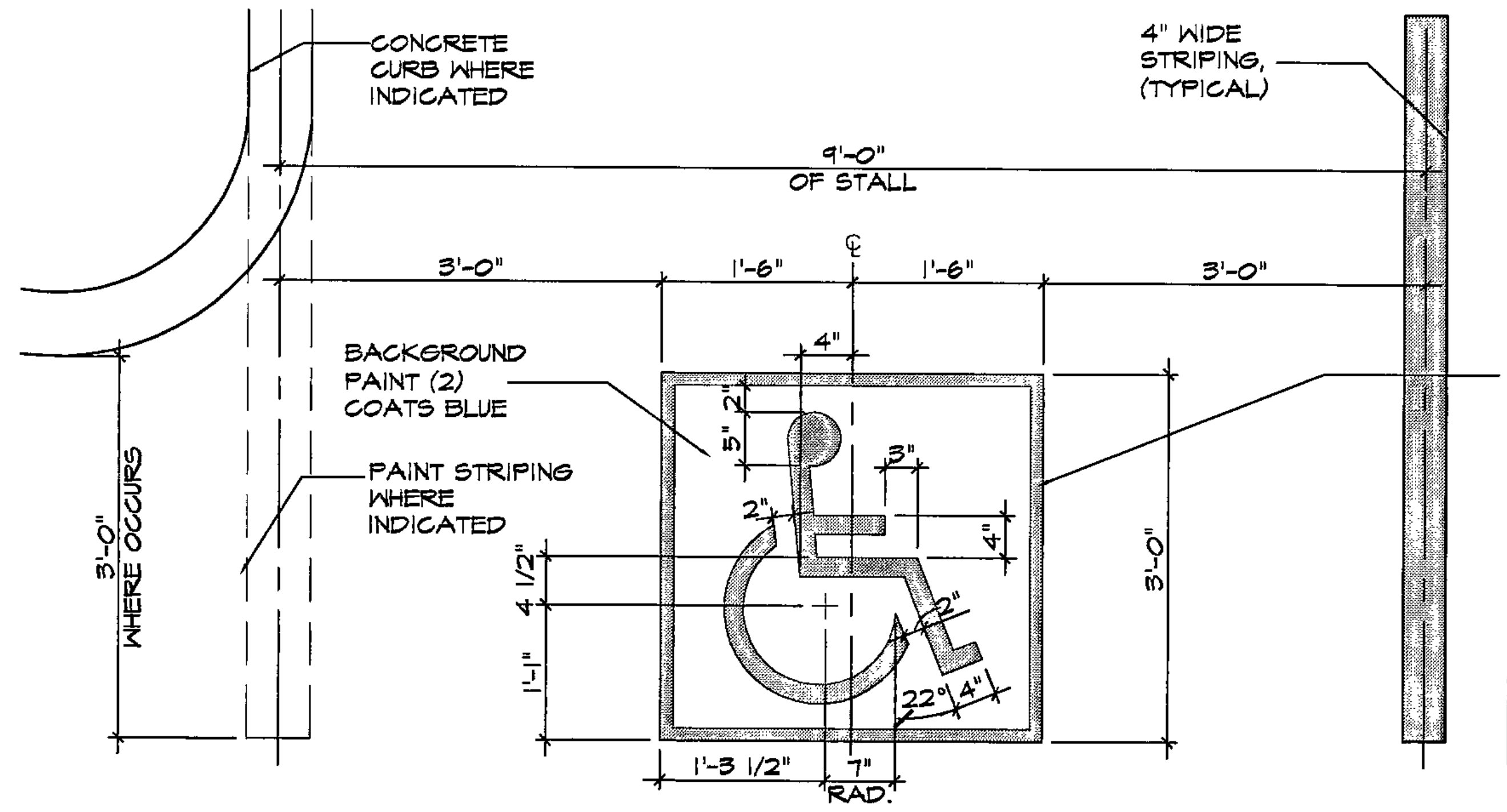
SCALE: 3/4" = 1'-0"


1'-7"
1'-7"
STOP SIGN (N.T.S.) SECURE TO PIPE WITH 1/2" CADIUM PLATED BOLTS, NUTS, AND WASHERS.
TRAFFIC SIGN (N.T.S.) SECURE TO PIPE WITH 1/2" CADIUM PLATED BOLTS, NUTS, AND WASHERS.
7'-0" MIN. ABOVE GROUND
5'-0" MIN. ABOVE GROUND
2" GALV. STEEL PIPE SET IN CONCRETE
PROVIDE E.J. @ CONCRETE PAVING LOCATIONS
FIN. GRADE; LINE OF WALK OR PLANTER
COMPACTED FILL - SEE SOILS REPORT
CONCRETE CURB & GUTTER - SEE CIVIL DRAWINGS
ASPHALT PAVING
1" SLOPE TYP.
3'-6"
3"
CONCRETE FOUNDATION 3,000 PSI.
1'-0" DIA.
NOT USED

NOTE: TRAFFIC SIGNS TO BE HIGHWAY STANDARD AND TO CONFORM TO CURRENT STATE & LOCAL CODES AND REGULATIONS

04 TYPICAL TRAFFIC SIGN DETAIL

SCALE: 3/4" = 1'-0"

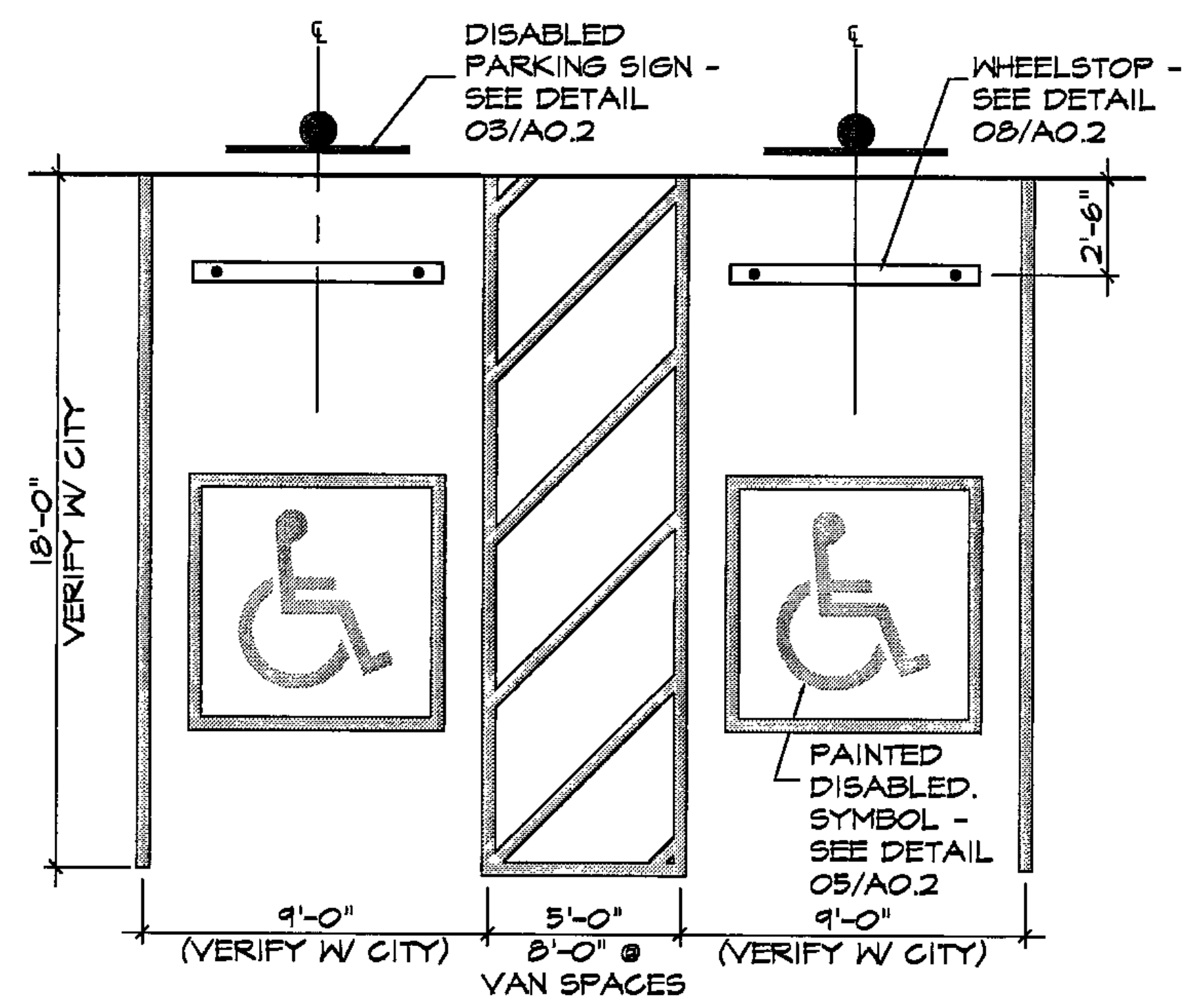

CONCRETE CURB WHERE INDICATED
9'-0" OF STALL
3'-0"
1'-6"
1'-6"
3'-0"
4"
5"
2"
3"
2"
4"
4 1/2"
1'-1"
2"
22°
4"
1'-3 1/2"
7" RAD.
3'-0"
3'-0" WHERE OCCURS
BACKGROUND PAINT (2) COATS BLUE
PAINT STRIPING WHERE INDICATED
4" WIDE STRIPING, (TYPICAL)
3" WIDE PAINTED STRIPES PAINT (2) COATS BEADED REFLECTIVE PAINT

NOTE: PAINT WITH (2) COATS (REFLECTIVE WHITE), DRY BETWEEN COATS.

NOTE: COORDINATE DETAIL W/ LOCAL JURISDICTION REQUIREMENTS.

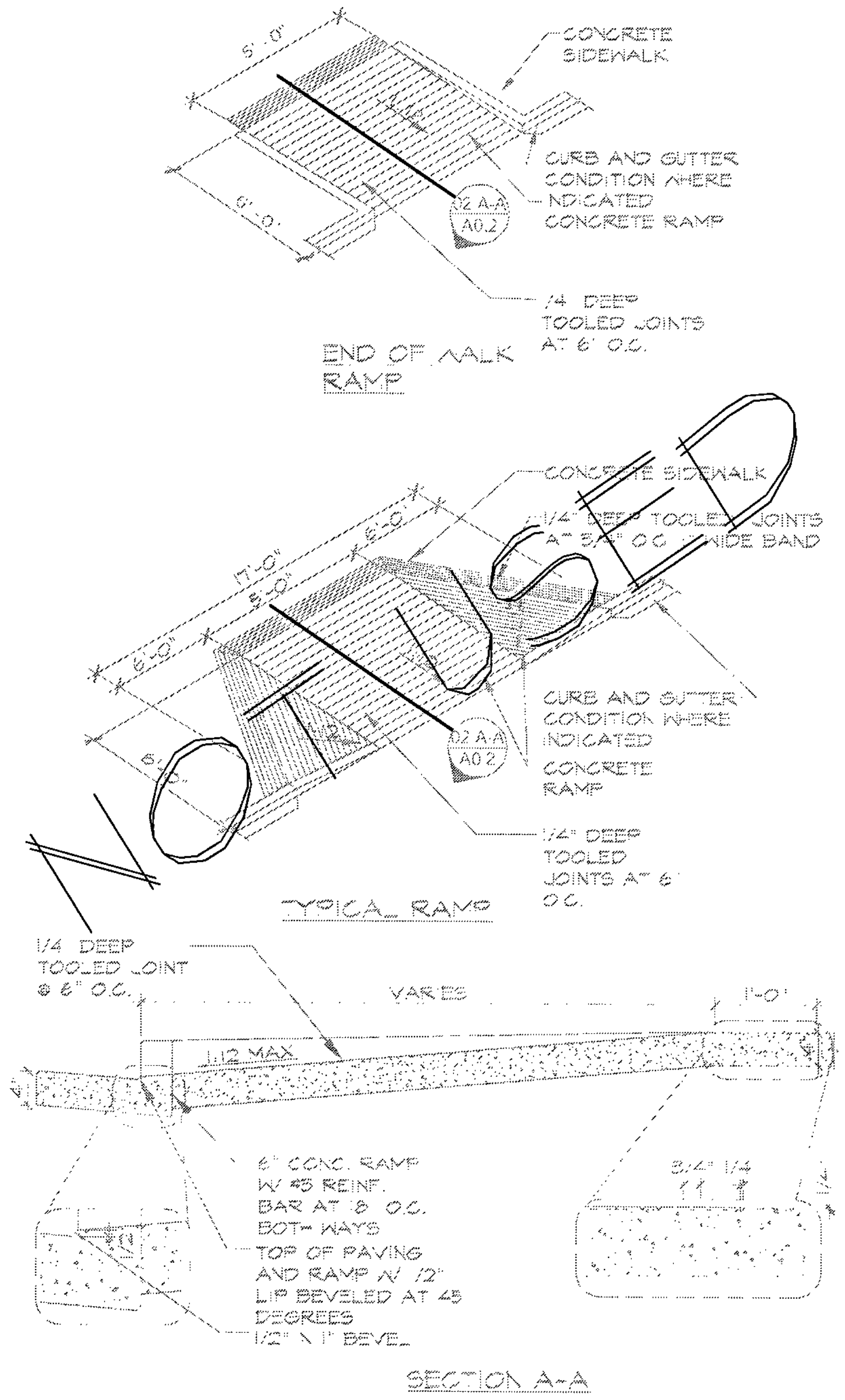
05 PAINTED ACCESSIBLE PARKING SYMBOL

SCALE: 3/4" = 1'-0"


DISABLED PARKING SIGN - SEE DETAIL 03/A0.2
WHEELSTOP - SEE DETAIL 08/A0.2
2'-6"
18'-0" VERIFY W/ CITY
PAINTED DISABLED. SYMBOL - SEE DETAIL 05/A0.2
9'-0" (VERIFY W/ CITY)
5'-0" 8'-0" @ VAN SPACES
9'-0" (VERIFY W/ CITY)

01 ENLARGED ACCESSIBLE PARKING

SCALE: 3/16" = 1'-0"


5'-0"
6'-0"
CONCRETE SIDEWALK
CURB AND GUTTER CONDITION WHERE INDICATED CONCRETE RAMP
02 A-A A0.2
1/4" DEEP TOOLED JOINTS AT 6" O.C.
END OF WALK RAMP
CONCRETE SIDEWALK
1/4" DEEP TOOLED JOINTS AT 5/8" O.C. WIDE BAND
17'-0"
6'-0"
5'-0"
6'-0"
6'-0"
CURB AND GUTTER CONDITION WHERE INDICATED
CONCRETE RAMP
1/4" DEEP TOOLED JOINTS AT 6" O.C.
TYPICAL RAMP
1/4 DEEP TOOLED JOINT @ 6" O.C.
VARIES
1'-0"
1:12 MAX
6" CONC. RAMP W/ #5 REINF. BAR AT 18" O.C. BOTH WAYS
TOP OF PAVING AND RAMP W/ 1/2" LIP BEVELED AT 45 DEGREES
1/2" X 1" BEVEL
3/4" 1/4
SECTION A-A
NOT USED

02 ACCESSIBLE RAMP DETAIL

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
No. 2983
ARKANSAS

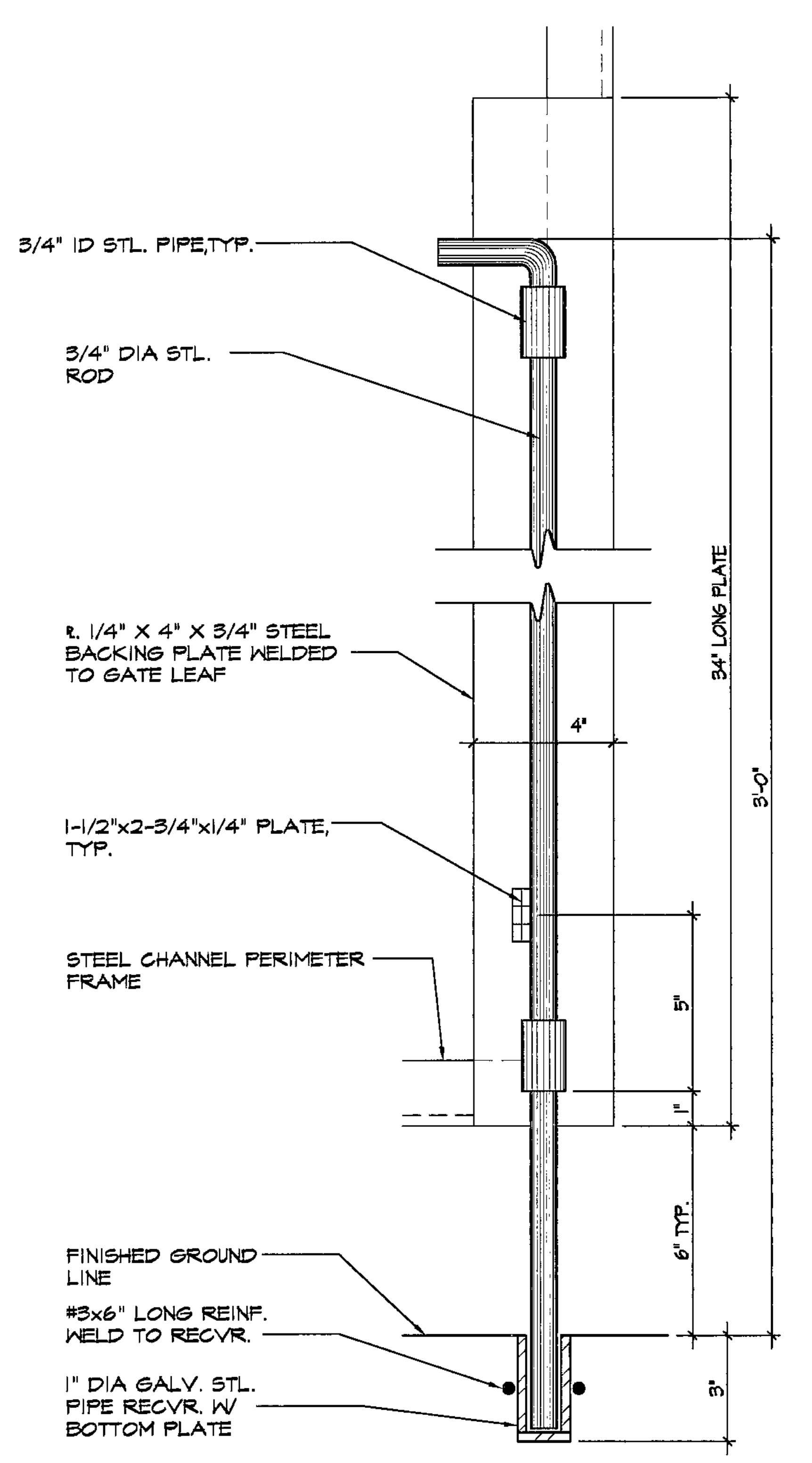
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

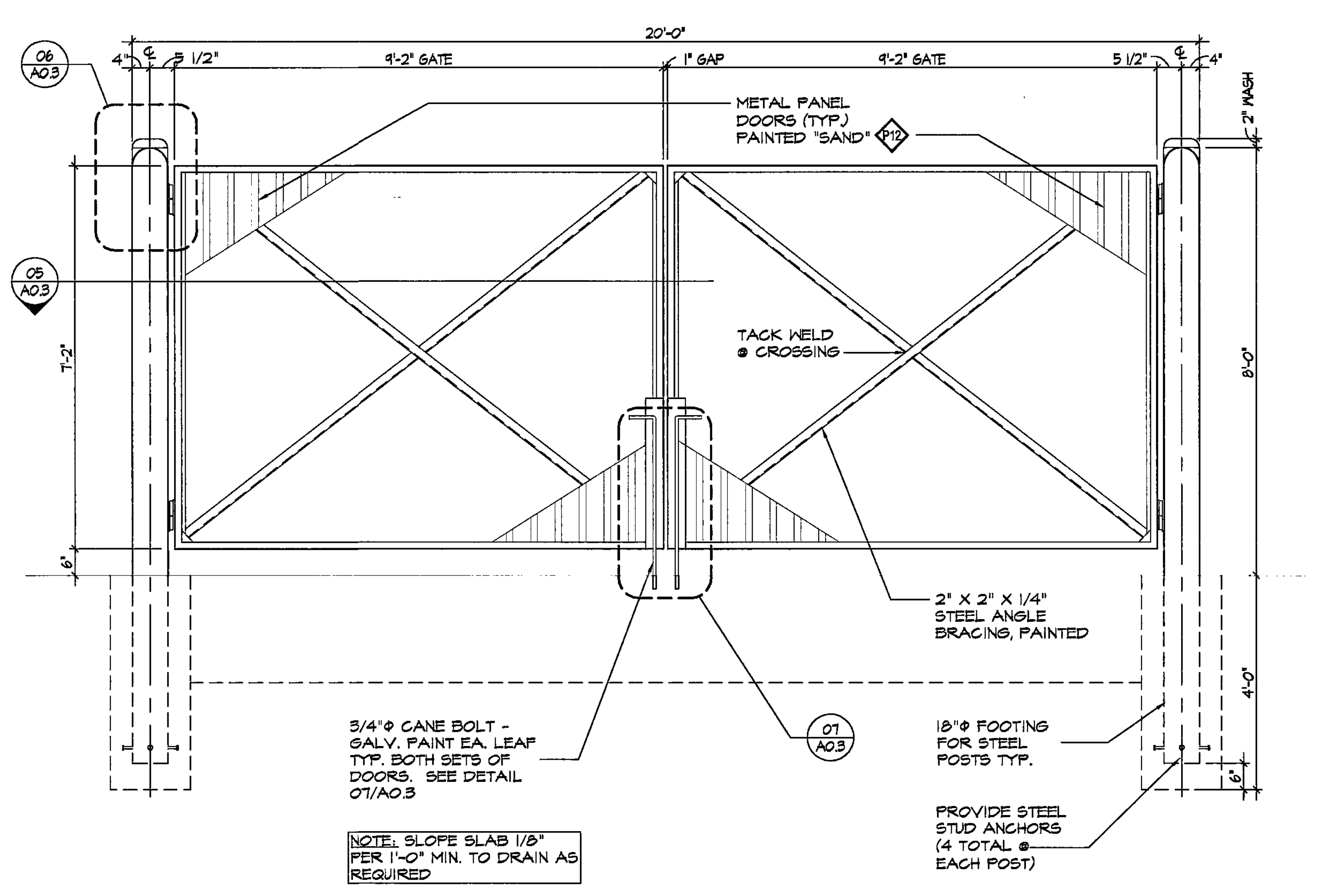
PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10
SITE DETAILS

A0.2


3/4" ID STL. PIPE,TYP.
3/4" DIA STL. ROD
℞. 1/4" X 4" X 3/4" STEEL BACKING PLATE WELDED TO GATE LEAF
4"
34" LONG PLATE
3'-0"
1-1/2"x2-3/4"x1/4" PLATE, TYP.
STEEL CHANNEL PERIMETER FRAME
5"
1"
6" TYP.
FINISHED GROUND LINE
#3x6" LONG REINF. WELD TO RECVR.
1" DIA GALV. STL. PIPE RECVR. W/ BOTTOM PLATE
3"

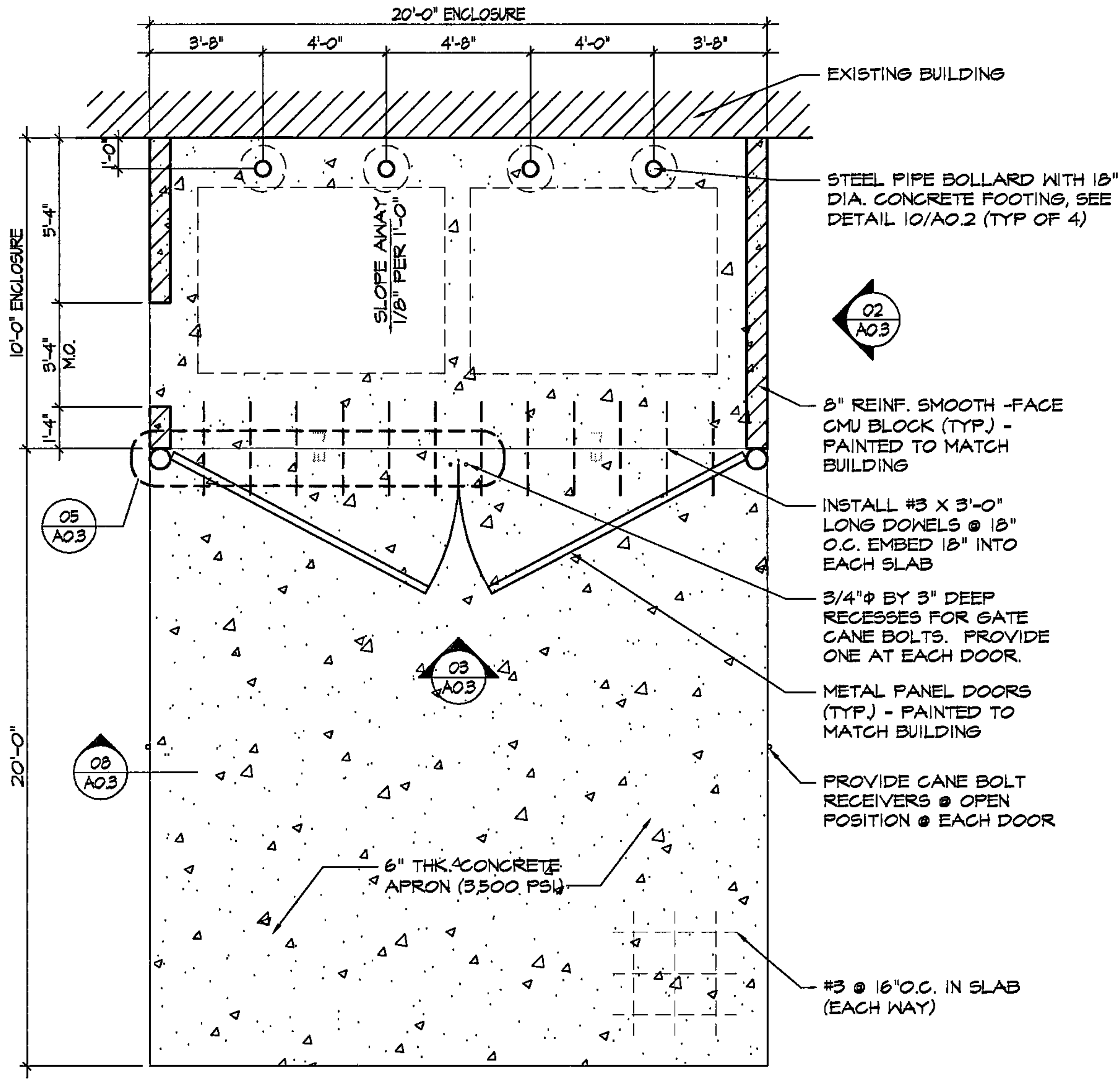
07 CANE BOLT DETAIL

SCALE: 3" = 1'-0"


20'-0"
06
A0.3
4"
℄
5 1/2"
9'-2" GATE
1" GAP
9'-2" GATE
5 1/2"
℄
4"
2" WASH
METAL PANEL DOORS (TYP.) PAINTED "SAND"
P12
05
A0.3
7'-2"
6"
TACK WELD @ CROSSING
8'-0"
2" X 2" X 1/4" STEEL ANGLE BRACING, PAINTED
4'-0"
3/4"Φ CANE BOLT - GALV. PAINT EA. LEAF TYP. BOTH SETS OF DOORS. SEE DETAIL 07/A0.3
07
A0.3
18"Φ FOOTING FOR STEEL POSTS TYP.
6"
PROVIDE STEEL STUD ANCHORS (4 TOTAL @ EACH POST)
NOTE: SLOPE SLAB 1/8" PER 1'-0" MIN. TO DRAIN AS REQUIRED

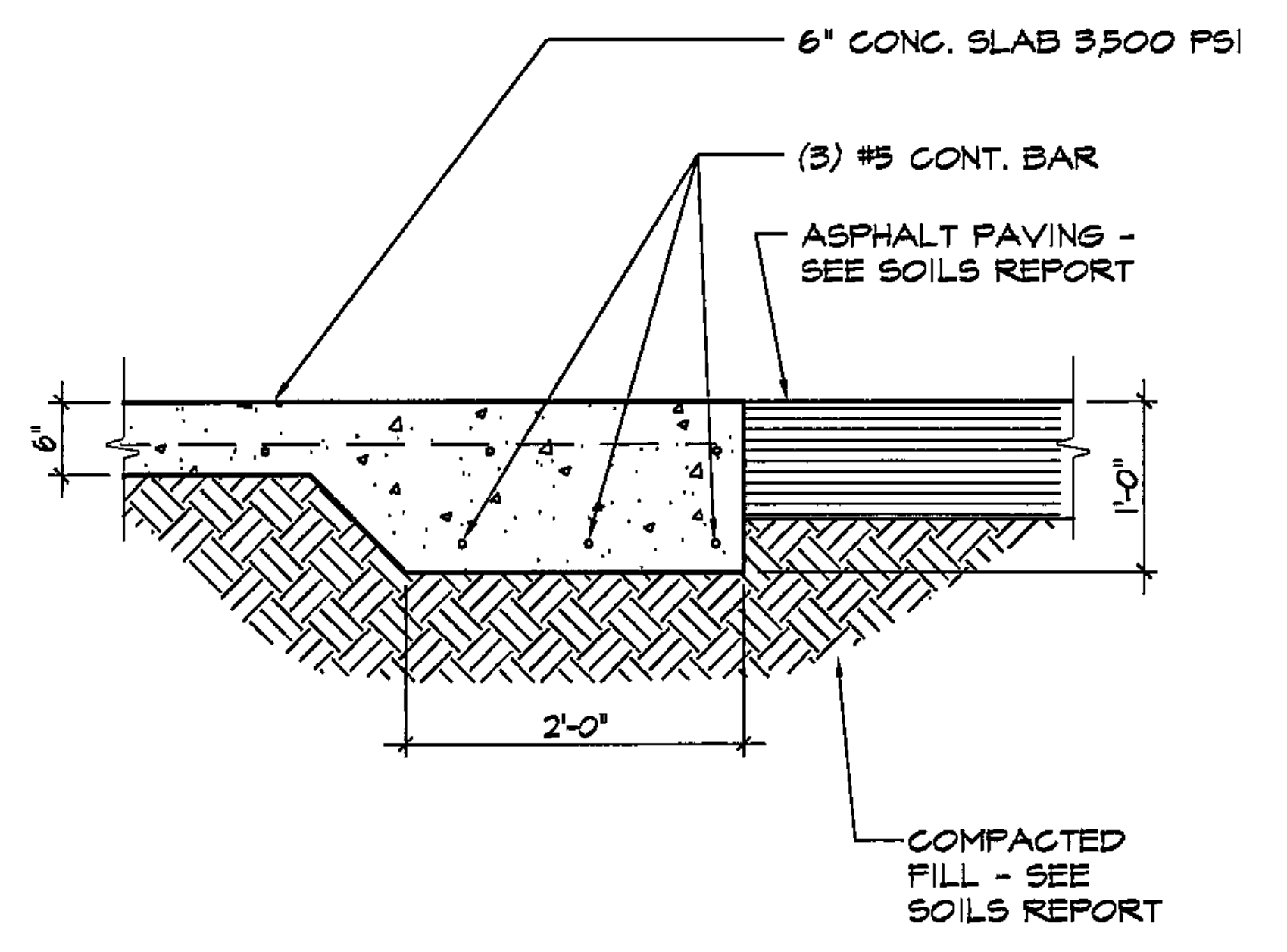
03 TRASH ENCLOSURE GATE ELEVATION

SCALE: 1/2" = 1'-0"


20'-0" ENCLOSURE
3'-8"
4'-0"
4'-8"
4'-0"
3'-8"
EXISTING BUILDING
1'-0"
STEEL PIPE BOLLARD WITH 18" DIA. CONCRETE FOOTING, SEE DETAIL 10/A0.2 (TYP OF 4)
5'-4"
10'-0" ENCLOSURE
SLOPE AWAY 1/8" PER 1'-0"
02
A0.3
3'-4" M.O.
1'-4"
8" REINF. SMOOTH -FACE CMU BLOCK (TYP.) - PAINTED TO MATCH BUILDING
05
A0.3
INSTALL #3 X 3'-0" LONG DOWELS @ 18" O.C. EMBED 18" INTO EACH SLAB
3/4"Φ BY 3" DEEP RECESSES FOR GATE CANE BOLTS. PROVIDE ONE AT EACH DOOR.
03
A0.3
METAL PANEL DOORS (TYP.) - PAINTED TO MATCH BUILDING
08
A0.3
20'-0"
PROVIDE CANE BOLT RECEIVERS @ OPEN POSITION @ EACH DOOR
6" THK. CONCRETE APRON (3,500 PSI)
#3 @ 16"O.C. IN SLAB (EACH WAY)

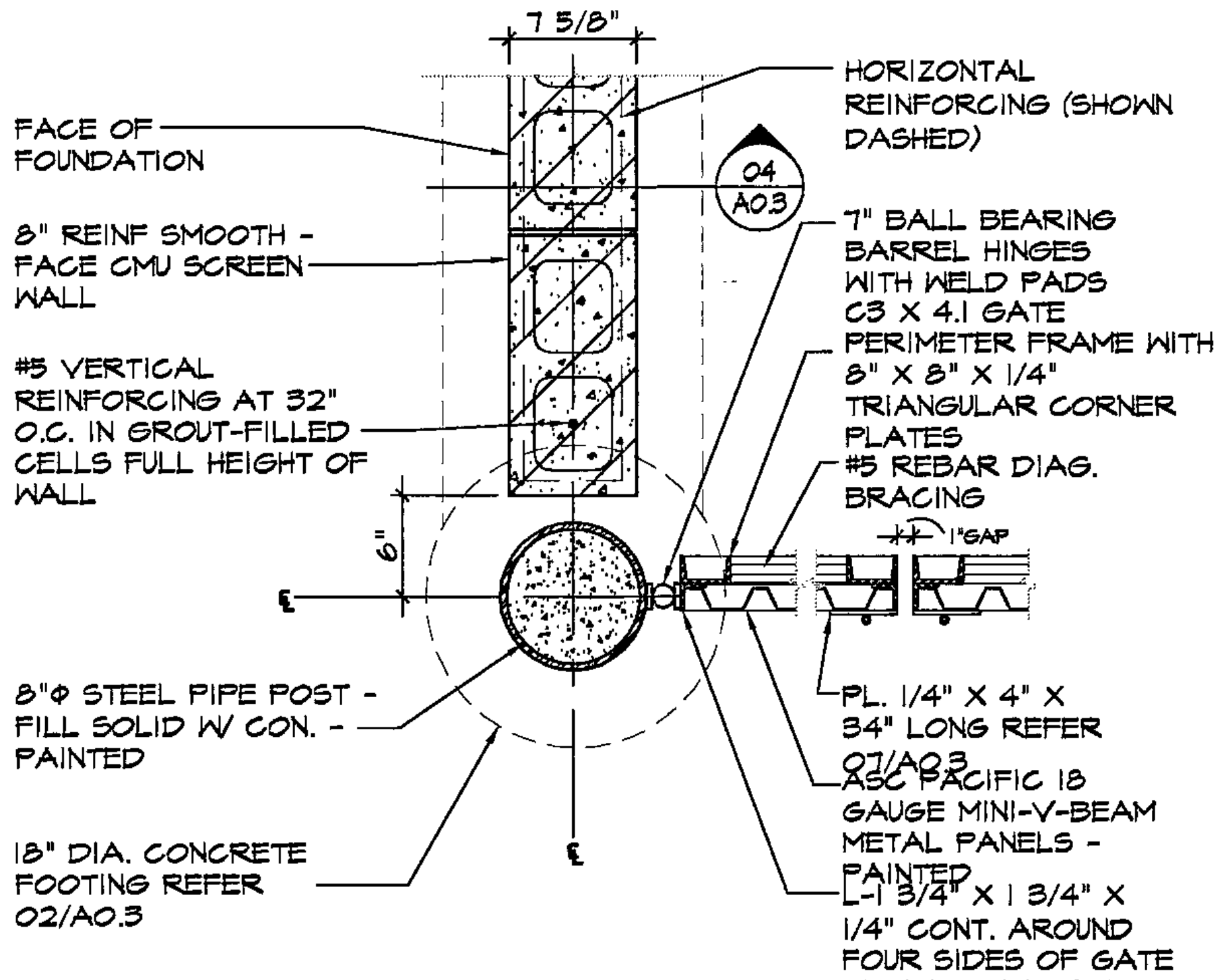
01 TRASH ENCLOSURE PLAN

SCALE: 1/4" = 1'-0"


6" CONC. SLAB 3,500 PSI
(3) #5 CONT. BAR
ASPHALT PAVING - SEE SOILS REPORT
6"
1'-0"
2'-0"
COMPACTED FILL - SEE SOILS REPORT

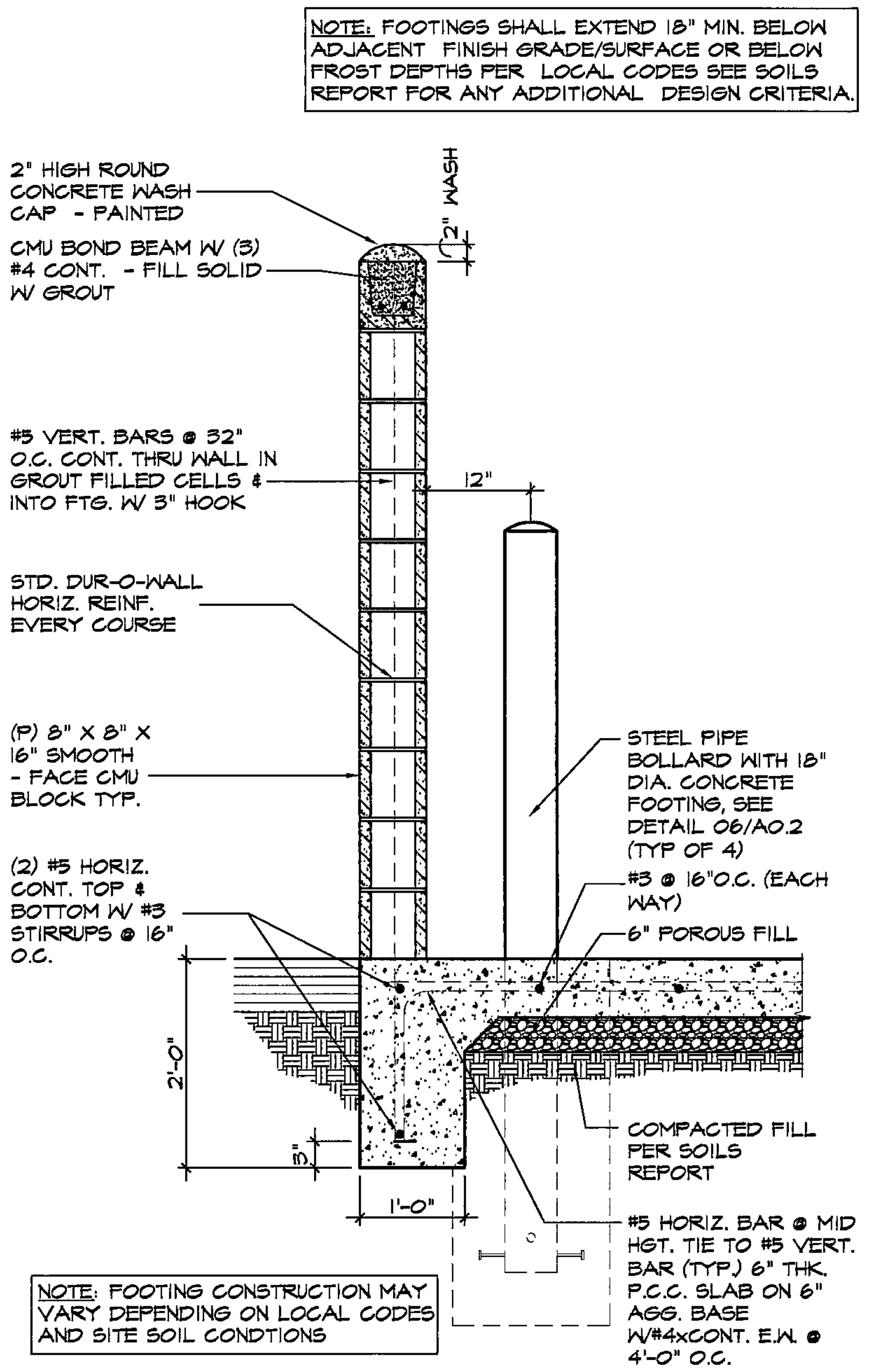
08 EDGE OF SLAB DETAIL

SCALE: 3/4" = 1'-0"


7 5/8"
FACE OF FOUNDATION
HORIZONTAL REINFORCING (SHOWN DASHED)
04
A0.3
8" REINF SMOOTH - FACE CMU SCREEN WALL
7" BALL BEARING BARREL HINGES WITH WELD PADS C3 X 4.1 GATE PERIMETER FRAME WITH 8" X 8" X 1/4" TRIANGULAR CORNER PLATES
#5 VERTICAL REINFORCING AT 32" O.C. IN GROUT-FILLED CELLS FULL HEIGHT OF WALL
#5 REBAR DIAG. BRACING
1"GAP
6"
℄
8"Φ STEEL PIPE POST - FILL SOLID W/ CON. - PAINTED
PL. 1/4" X 4" X 34" LONG REFER 07/A0.3
ASC PACIFIC 18 GAUGE MINI-V-BEAM METAL PANELS - PAINTED
18" DIA. CONCRETE FOOTING REFER 02/A0.3
℄
L-1 3/4" X 1 3/4" X 1/4" CONT. AROUND FOUR SIDES OF GATE PERIMETER FRAME

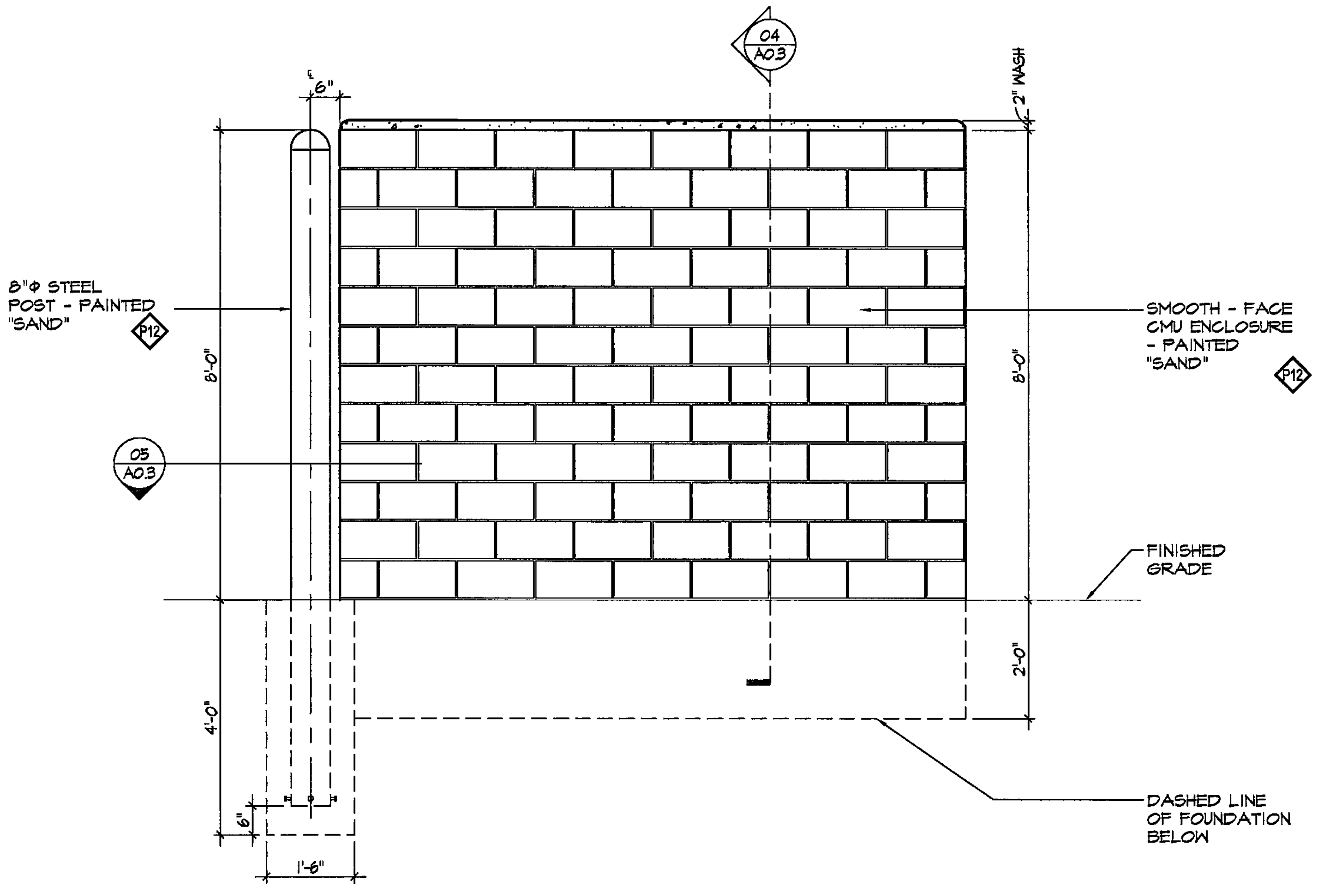
05 GATE JAMB DETAIL

SCALE: 1" = 1'-0"


NOTE: FOOTINGS SHALL EXTEND 18" MIN. BELOW ADJACENT FINISH GRADE/SURFACE OR BELOW FROST DEPTHS PER LOCAL CODES SEE SOILS REPORT FOR ANY ADDITIONAL DESIGN CRITERIA.
2" HIGH ROUND CONCRETE WASH CAP - PAINTED
2" WASH
CMU BOND BEAM W/ (3) #4 CONT. - FILL SOLID W/ GROUT
#5 VERT. BARS @ 32" O.C. CONT. THRU WALL IN GROUT FILLED CELLS & INTO FTG. W/ 3" HOOK
12"
STD. DUR-O-WALL HORIZ. REINF. EVERY COURSE
(P) 8" X 8" X 16" SMOOTH - FACE CMU BLOCK TYP.
STEEL PIPE BOLLARD WITH 18" DIA. CONCRETE FOOTING, SEE DETAIL 06/A0.2 (TYP OF 4)
#3 @ 16"O.C. (EACH WAY)
6" POROUS FILL
(2) #5 HORIZ. CONT. TOP & BOTTOM W/ #3 STIRRUPS @ 16" O.C.
2'-0"
3"
1'-0"
COMPACTED FILL PER SOILS REPORT
#5 HORIZ. BAR @ MID HGT. TIE TO #5 VERT. BAR (TYP.) 6" THK. P.C.C. SLAB ON 6" AGG. BASE W/#4xCONT. E.W. @ 4'-0" O.C.
NOTE: FOOTING CONSTRUCTION MAY VARY DEPENDING ON LOCAL CODES AND SITE SOIL CONDTIONS

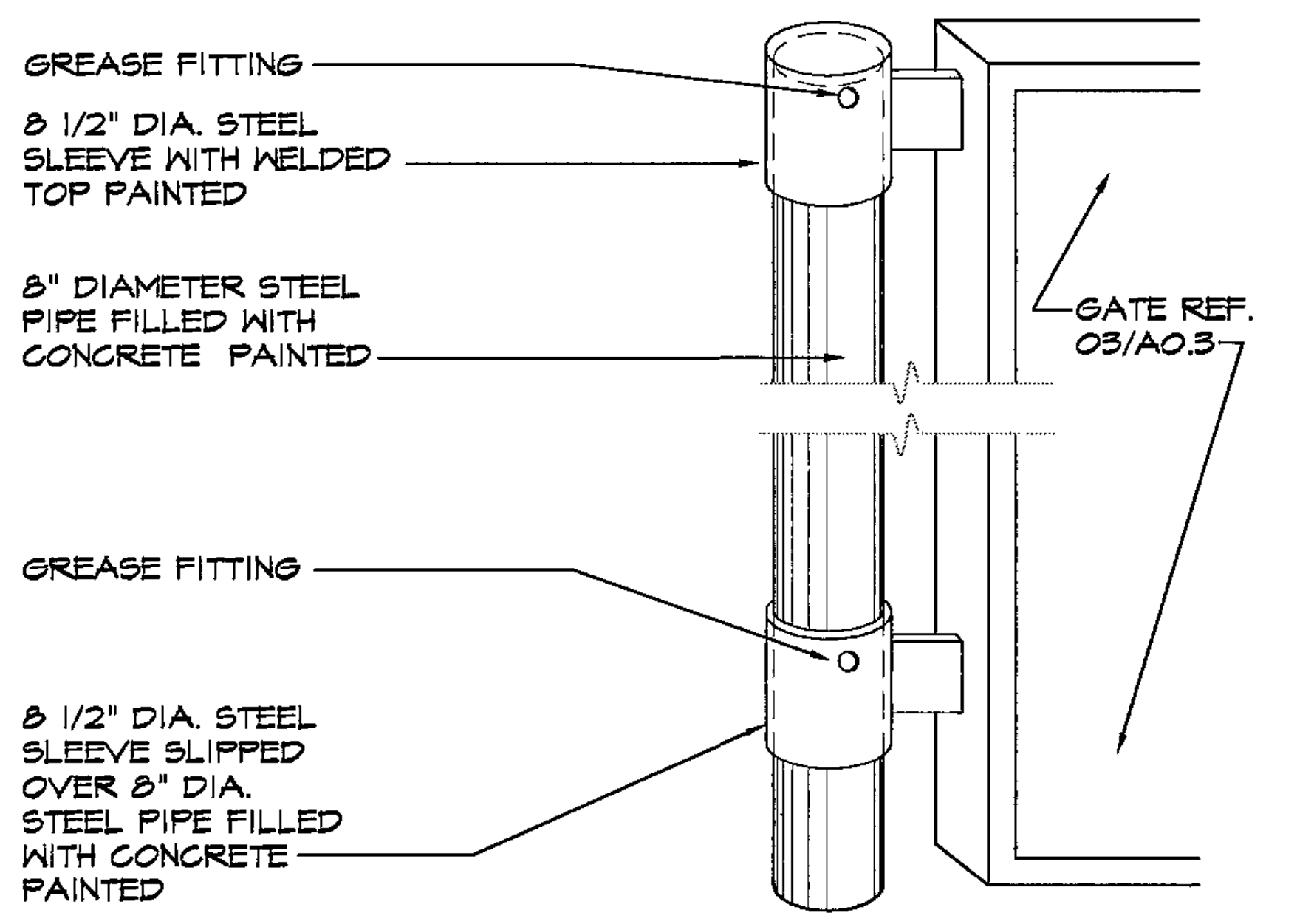
04 SCREEN WALL SECTION

SCALE: 3/4" = 1'-0"


04
A0.3
℄
6"
2" WASH
8"Φ STEEL POST - PAINTED "SAND"
P12
8'-0"
SMOOTH - FACE CMU ENCLOSURE - PAINTED "SAND"
P12
8'-0"
05
A0.3
FINISHED GRADE
2'-0"
4'-0"
6"
1'-6"
DASHED LINE OF FOUNDATION BELOW

02 TRASH ENCLOSURE SIDE ELEVATION

SCALE: 1/2" = 1'-0"


GREASE FITTING
8 1/2" DIA. STEEL SLEEVE WITH WELDED TOP PAINTED
8" DIAMETER STEEL PIPE FILLED WITH CONCRETE PAINTED
GATE REF. 03/A0.3
GREASE FITTING
8 1/2" DIA. STEEL SLEEVE SLIPPED OVER 8" DIA. STEEL PIPE FILLED WITH CONCRETE PAINTED

06 GATE HINGE DETAIL

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT

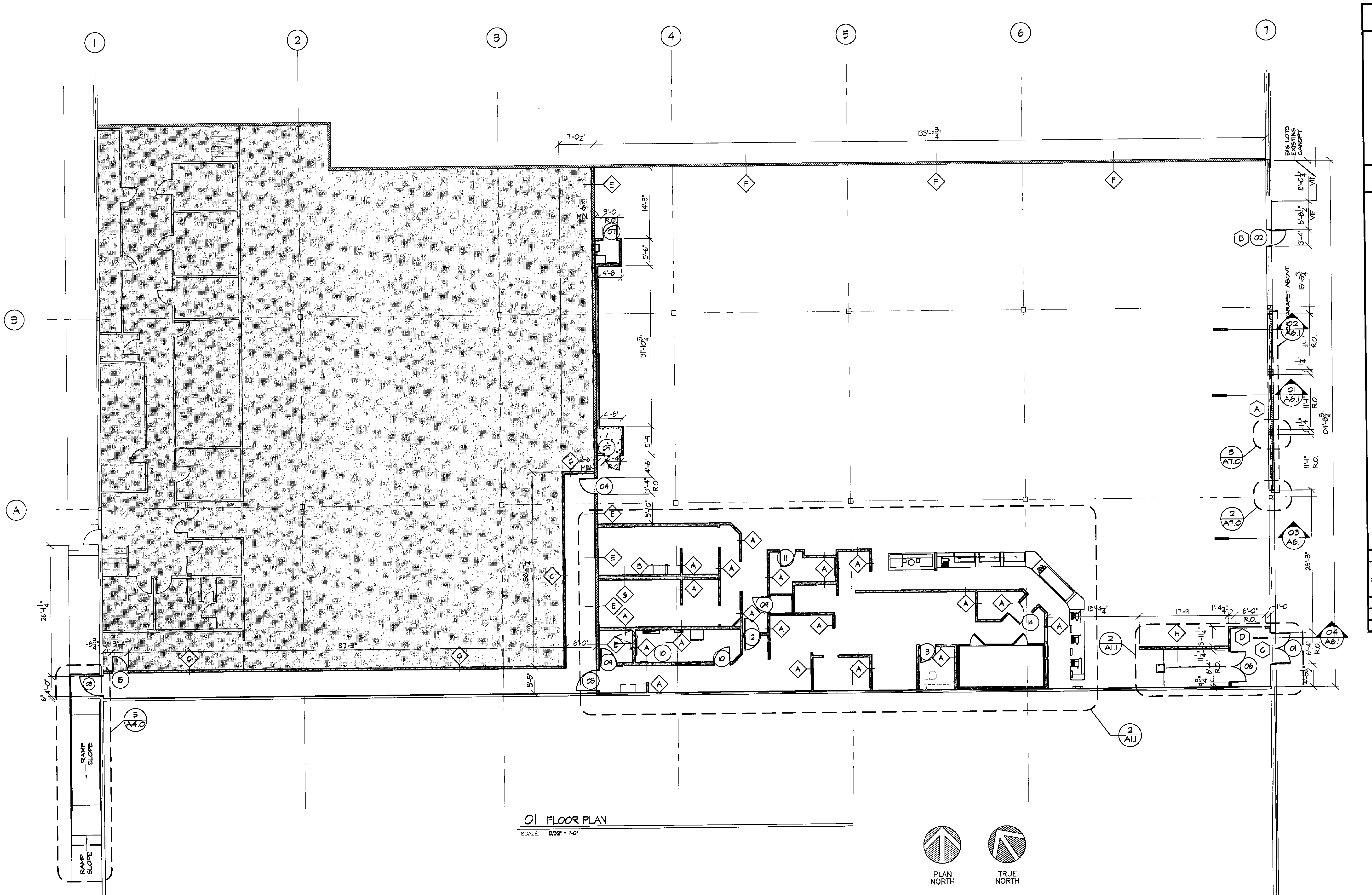
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
TRASH ENCLOSURE

A0.3



01 FLOOR PLAN

SCALE: 3/32" = 1'-0"

WALL LEGEND

- 3-5/8" MTL. STUD FULL HEIGHT PARTITION, U.N.O.
- 6" MTL. STUD FULL HEIGHT PARTITION
- 6" MTL. STUD TO BTM OF DECK, UL 465 (1 HR RATED)
- 6" MTL. STUD TO BTM OF DECK, INSULATED
- COOLER/FREEZER WALL SYSTEM, W/ 3-5/8" MTL. STUDS
- 3-5/8" MTL. STUD HALF WALL
- BLOCK VENEER WITH SILL BELOW
- FURR OUT WALL W/ STEEL 'X' BRACING

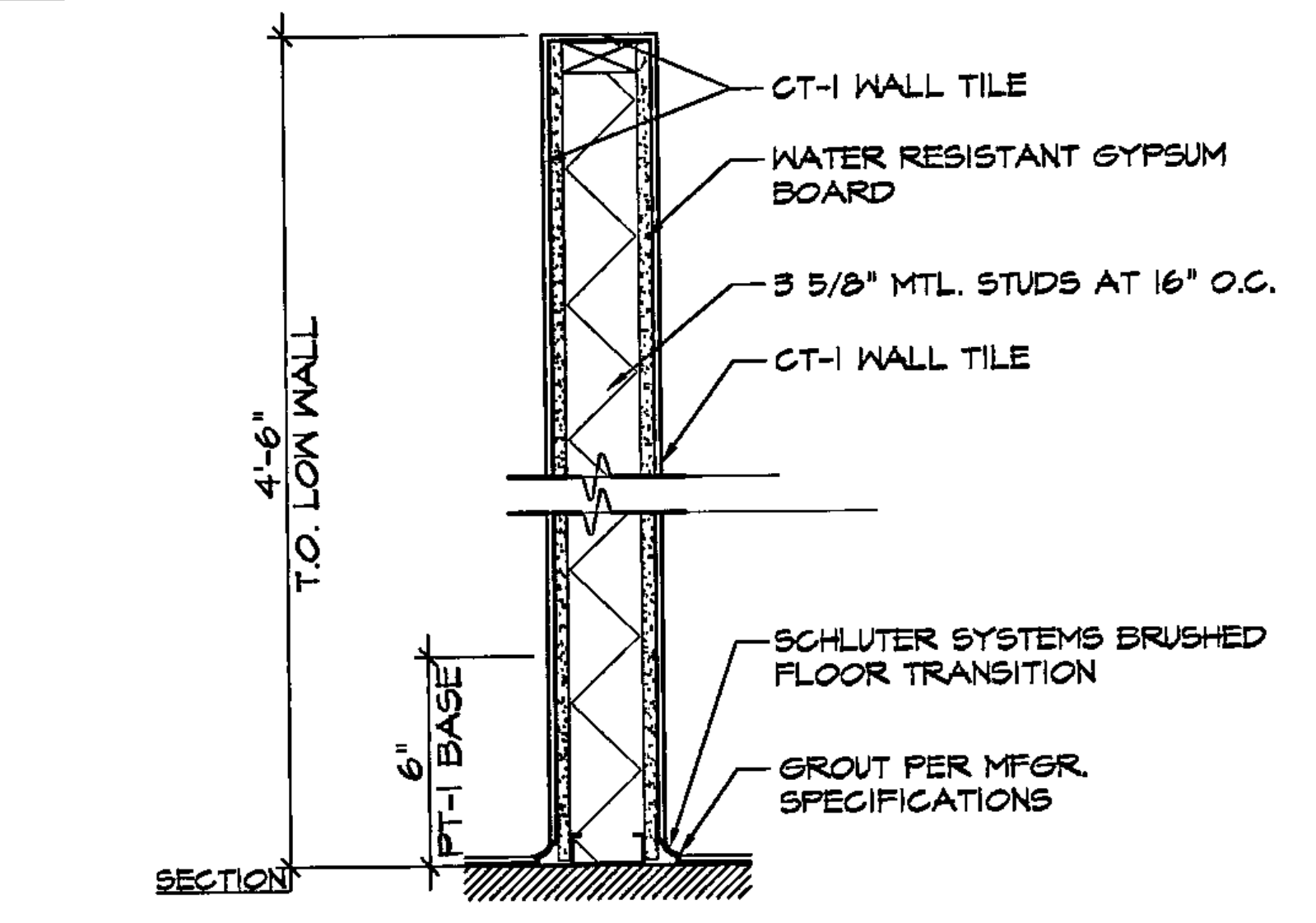
FLOOR PLAN NOTES

1. EXTERIOR DIMENSIONS SHOWN TO EDGE OF SLAB OR FOUNDATION, ALL OTHER DIMENSIONS TO FACE OF STUD.
2. INTERIOR "CLEAR" DIMENSIONS ARE FINISH DIMENSIONS, "HOLD" ARE TO STUDS.
3. SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
4. ALL INTERIOR PARTITIONS ARE TO BE BUILT AS SHOWN ON A1.0 EXCEPT WHERE NOTED OTHERWISE.
5. METAL STUDS ARE TO BE 20 GAUGE AT 16" O.C. UNLESS OTHERWISE NOTED.
6. CONSTRUCT RATED PARTITIONS IN ACCORDANCE WITH REQUIREMENTS OF NOTED FIRE RATED DESIGN ASSEMBLIES.
7. SET FLOOR TRACK ON CONTINUOUS BEADS OF ACOUSTICAL SEALANT ON BOTH SIDES.
8. PROVIDE INSULATION IN WALLS AS INDICATED ON WALL TYPES.
9. ALL GYPSUM BOARD TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. GYPSUM BOARD SHALL BE TAPED AND BEDDED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS. SEE SPECIFICATIONS.
10. PROVIDE WOOD BLOCKING IN PARTITIONS AS REQUIRED. COORDINATE WITH THE OWNER ON ITEMS/FIXTURES AND EQUIPMENT INSTALLED BY THE OWNER THAT MAY REQUIRE BLOCKING.
11. WALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING.
12. ELECTRICAL BOXES SHALL NOT BE MOUNTED BACK TO BACK. BOXES SHALL BE SEALED TO GYPSUM BOARD WITH RESILIENT CAULK.

(XX) DOOR No.
(C) DOOR TYPE — REFER TO A8.0 FOR DOOR LEGEND

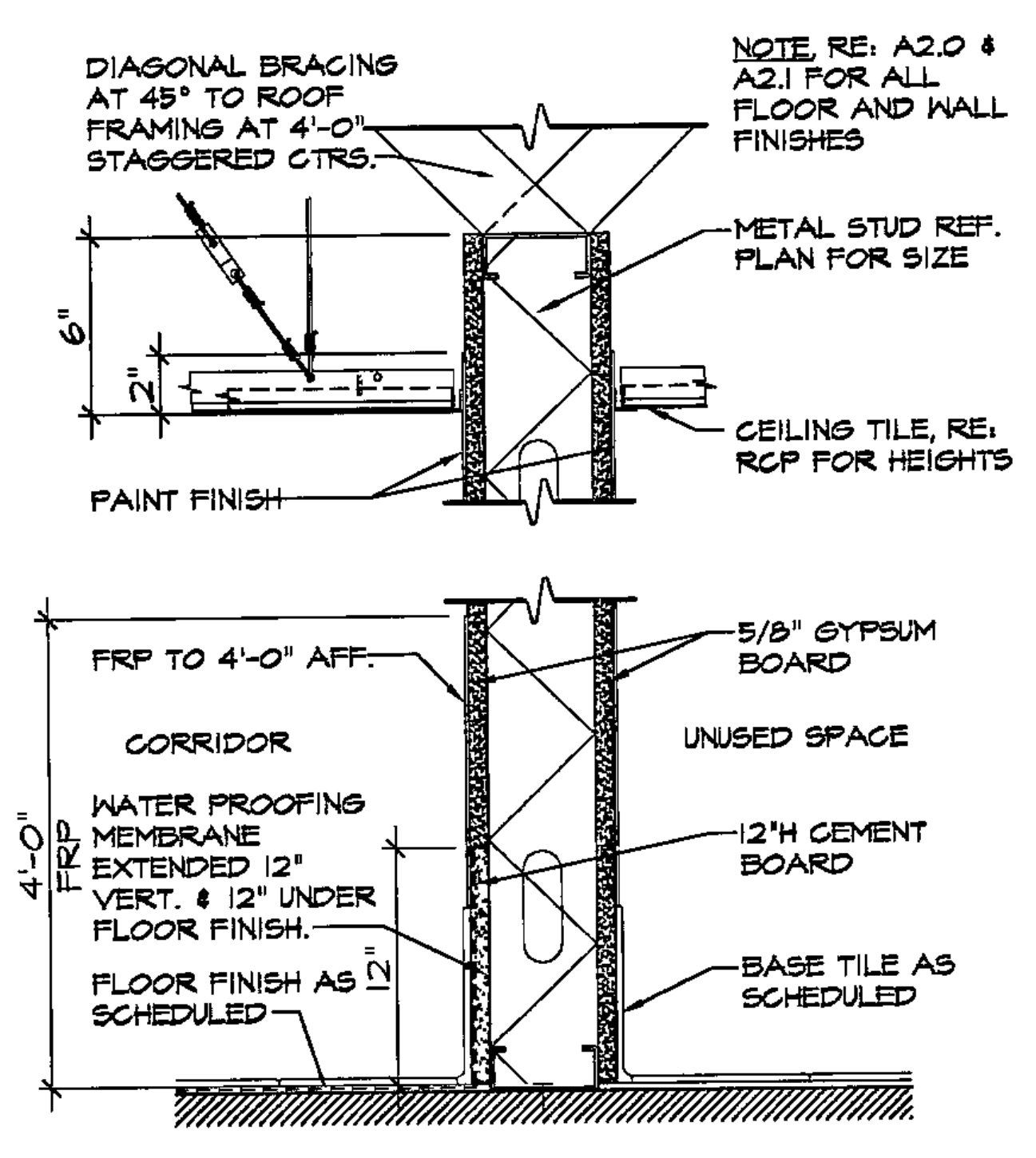
MAX. HEIGHT FOR INTERIOR WALLS

GA.	1 5/8" STUD			2 1/2" STUD			3 5/8" STUD			4" STUD			6" STUD		
	ON CENTER STUD SPACING														
	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
25	6'-10"	6'-2"	5'-5"	9'-5"	8'-6"	7'-6"	12'-6"	11'-5"	9'-11"	13'-6"	12'-4"	10'-8"	NOT AVAILABLE		
22	7'-11"	7'-2"	6'-4"	10'-11"	9'-11"	8'-8"	14'-6"	13'-2"	11'-6"	15'-8"	14'-4"	12'-6"	21'-8"	19'-8"	17'-2"
20	8'-5"	7'-7"	6'-8"	11'-7"	10'-7"	9'-2"	15'-6"	14'-1"	12'-4"	16'-10"	15'-2"	13'-4"	23'-2"	21'-1"	18'-5"


CT-1 WALL TILE
WATER RESISTANT GYPSUM BOARD
3 5/8" MTL. STUDS AT 16" O.C.
CT-1 WALL TILE
SCHLUTER SYSTEMS BRUSHED FLOOR TRANSITION
GROUT PER MFGR. SPECIFICATIONS
4'-6"
T.O. LOW WALL
6"
PT-1 BASE
SECTION

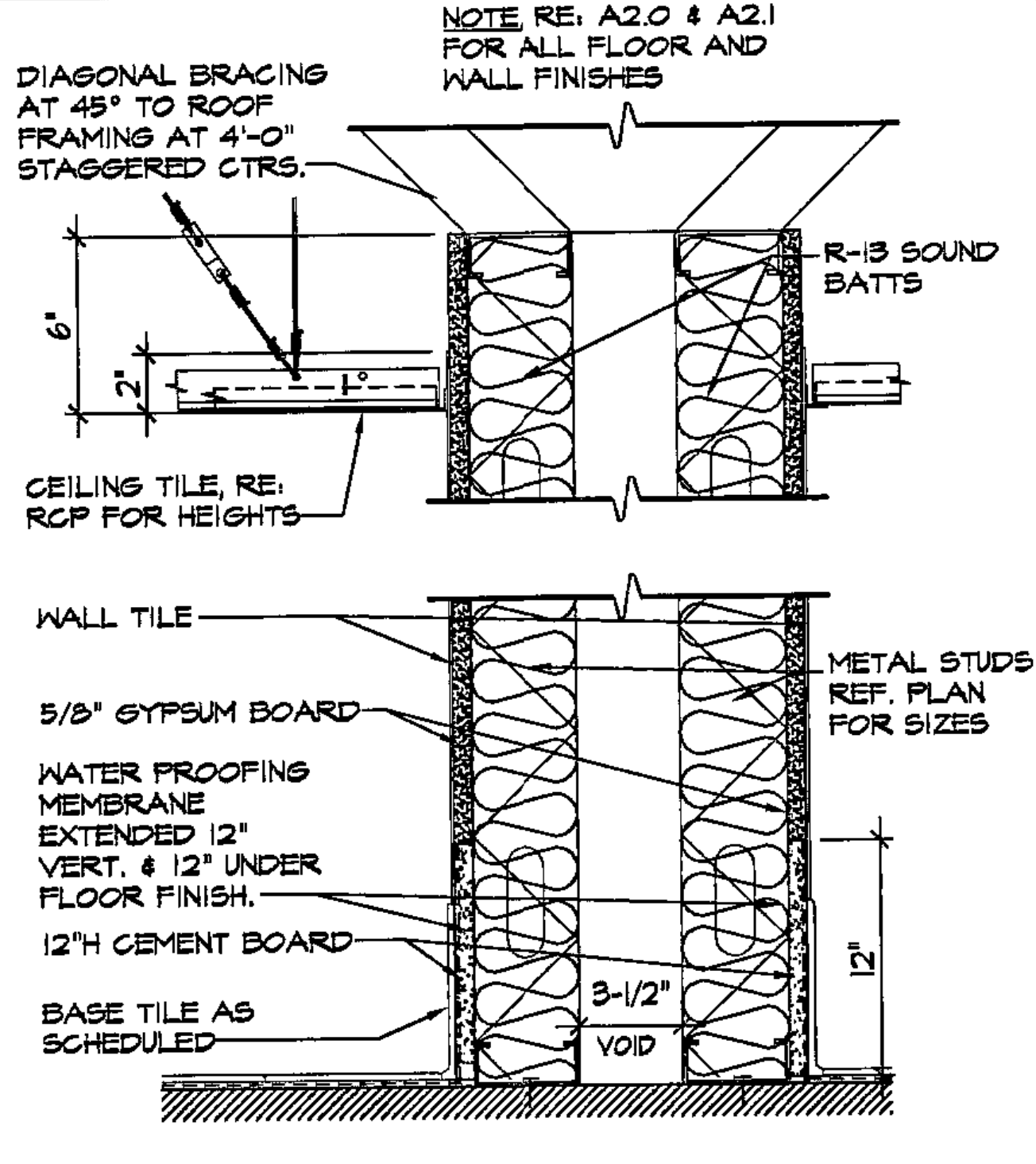
B WALL TYPE

SCALE: 1" = 1'-0"


DIAGONAL BRACING AT 45° TO ROOF FRAMING AT 4'-0" STAGGERED CTRS.
NOTE, RE: A2.0 & A2.1 FOR ALL FLOOR AND WALL FINISHES
METAL STUD REF. PLAN FOR SIZE
6"
2"
1°
CEILING TILE, RE: RCP FOR HEIGHTS
PAINT FINISH
FRP TO 4'-0" AFF.
5/8" GYPSUM BOARD
CORRIDOR
UNUSED SPACE
4'-0" FRP
WATER PROOFING MEMBRANE EXTENDED 12" VERT. & 12" UNDER FLOOR FINISH.
12"H CEMENT BOARD
BASE TILE AS SCHEDULED
FLOOR FINISH AS SCHEDULED
12"

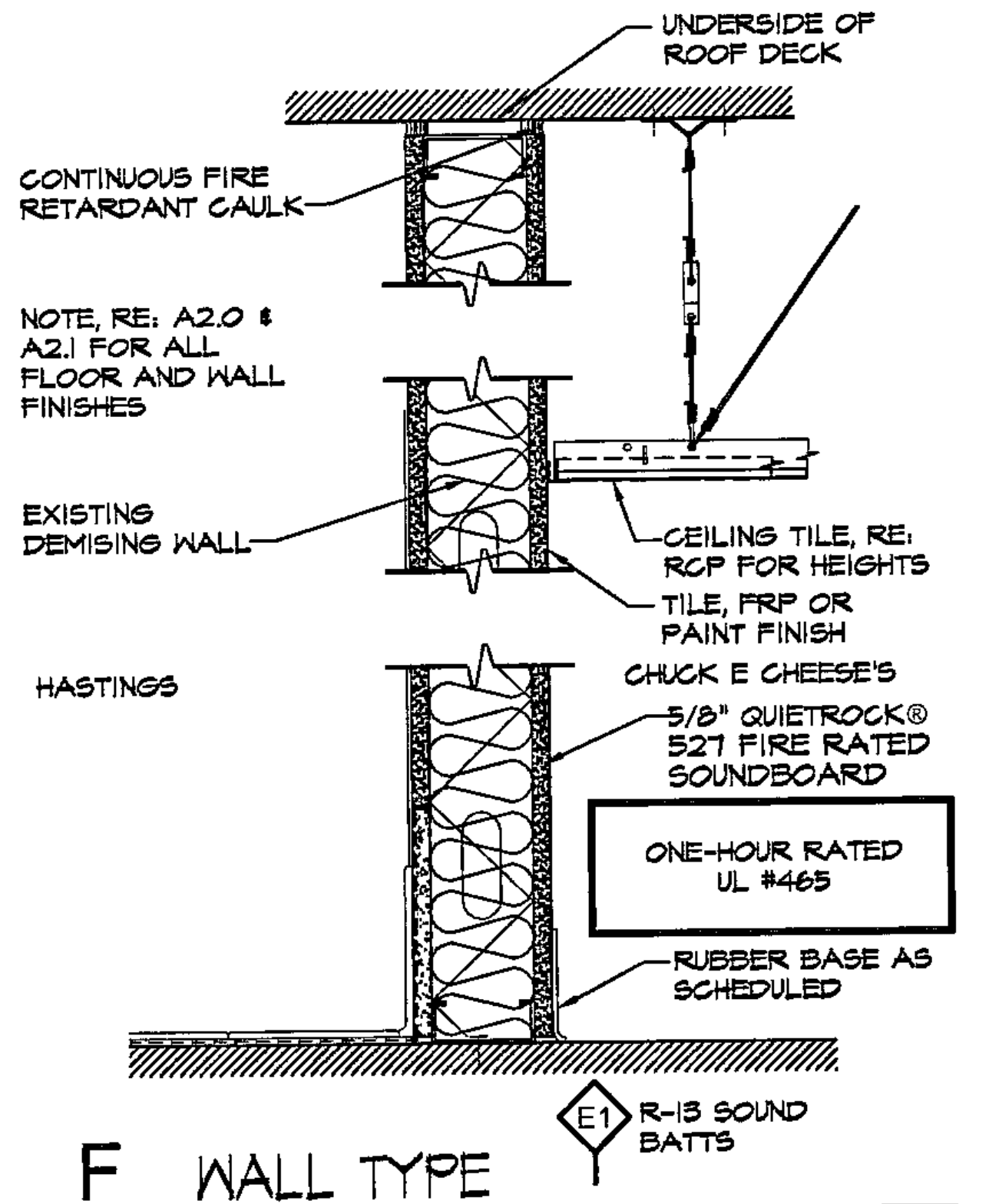
C WALL TYPE

SCALE: 1-1/2" = 1'-0"


DIAGONAL BRACING AT 45° TO ROOF FRAMING AT 4'-0" STAGGERED CTRS.
NOTE, RE: A2.0 & A2.1 FOR ALL FLOOR AND WALL FINISHES
R-13 SOUND BATTS
6"
2"
1°
CEILING TILE, RE: RCP FOR HEIGHTS
WALL TILE
METAL STUDS REF. PLAN FOR SIZES
5/8" GYPSUM BOARD
WATER PROOFING MEMBRANE EXTENDED 12" VERT. & 12" UNDER FLOOR FINISH.
12"H CEMENT BOARD
BASE TILE AS SCHEDULED
3-1/2"
VOID
12"

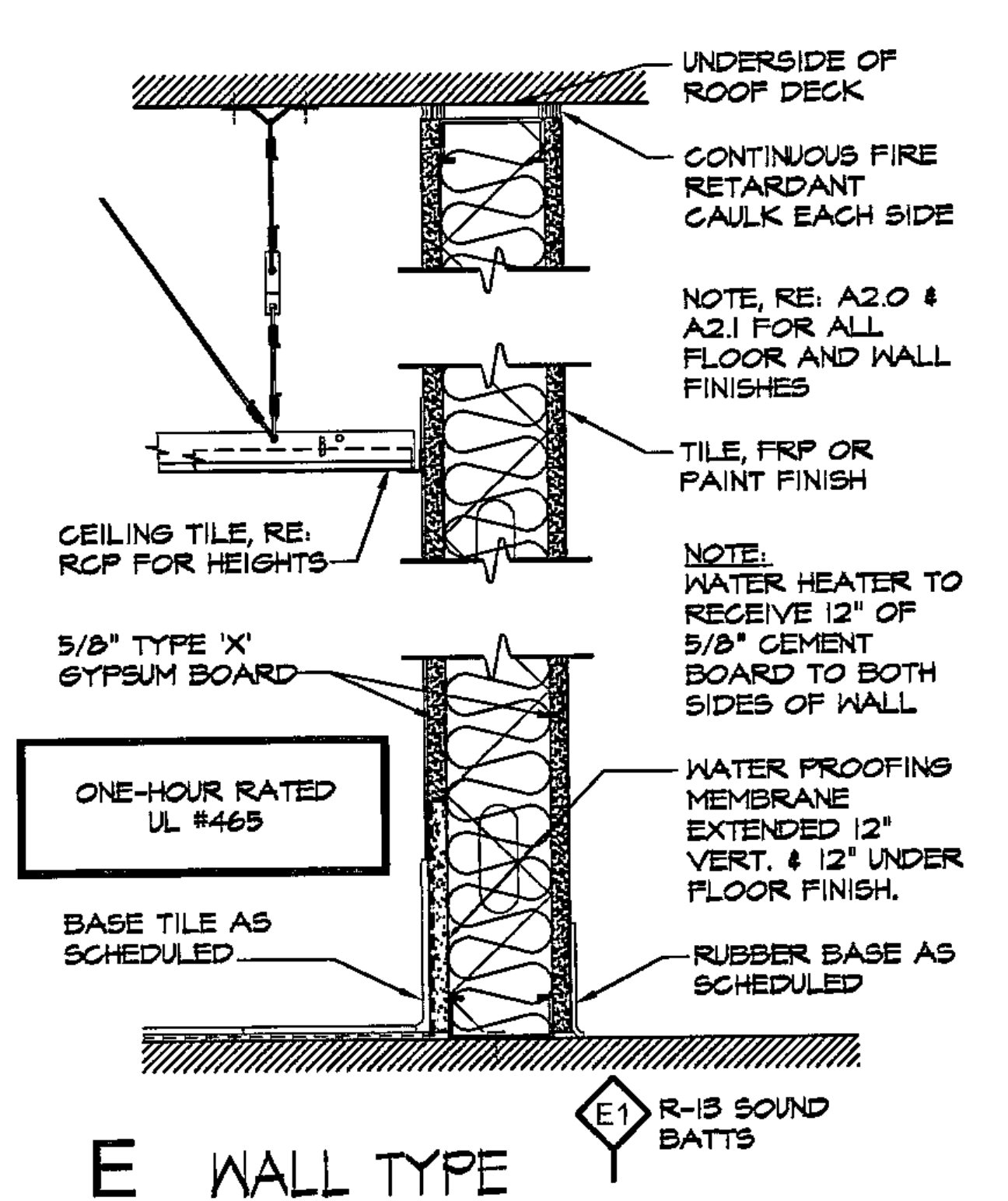
G WALL TYPE

SCALE: 1-1/2" = 1'-0"


UNDERSIDE OF ROOF DECK
CONTINUOUS FIRE RETARDANT CAULK
NOTE, RE: A2.0 & A2.1 FOR ALL FLOOR AND WALL FINISHES
EXISTING DEMISING WALL
CEILING TILE, RE: RCP FOR HEIGHTS
TILE, FRP OR PAINT FINISH
HASTINGS
CHUCK E CHEESE'S
5/8" QUIETROCK® 527 FIRE RATED SOUNDBOARD
ONE-HOUR RATED UL #465
RUBBER BASE AS SCHEDULED
E1
R-13 SOUND BATTS

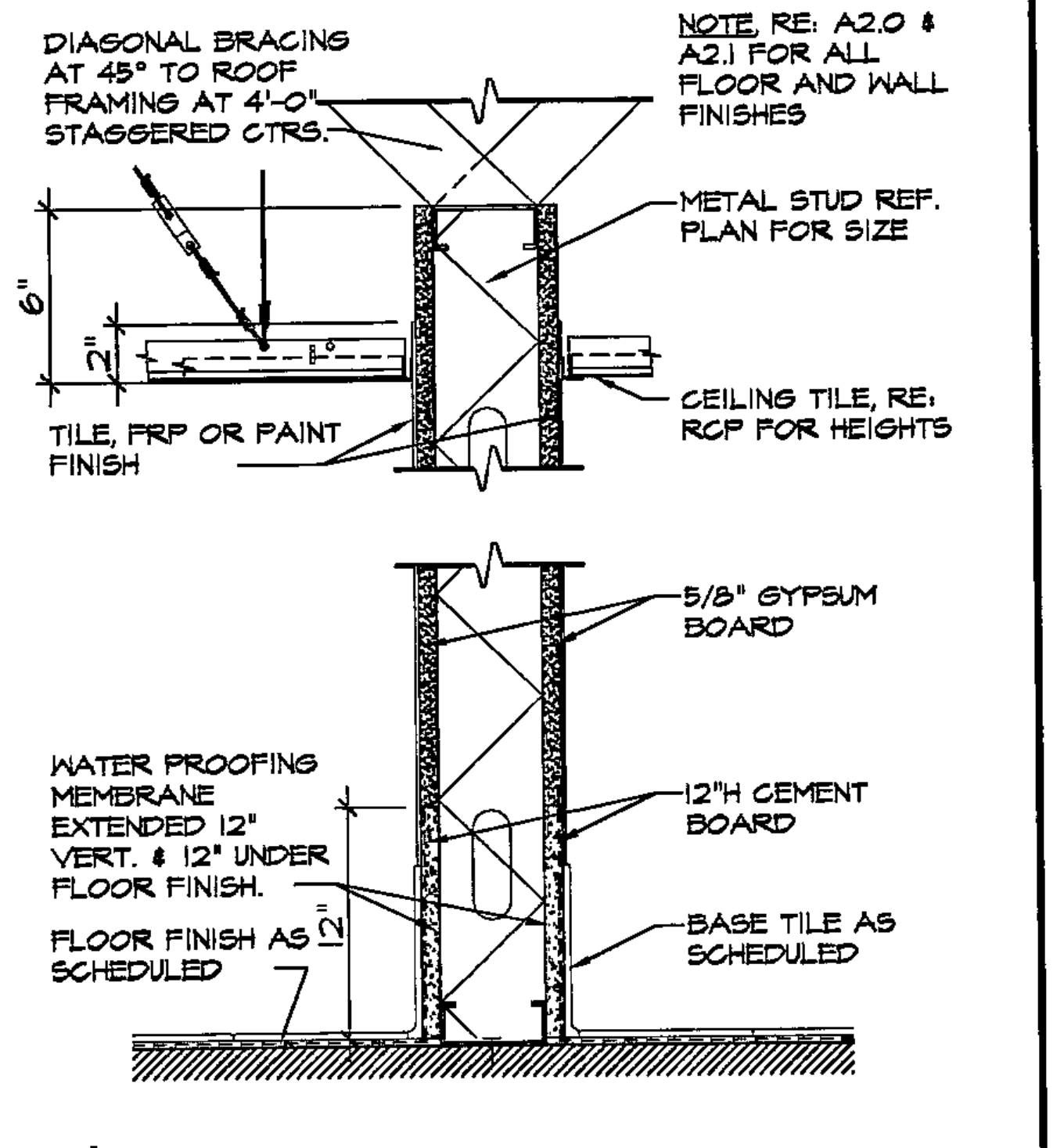
F WALL TYPE

SCALE: 1-1/2" = 1'-0"


UNDERSIDE OF ROOF DECK
CONTINUOUS FIRE RETARDANT CAULK EACH SIDE
NOTE, RE: A2.0 & A2.1 FOR ALL FLOOR AND WALL FINISHES
TILE, FRP OR PAINT FINISH
CEILING TILE, RE: RCP FOR HEIGHTS
NOTE: WATER HEATER TO RECEIVE 12" OF 5/8" CEMENT BOARD TO BOTH SIDES OF WALL
5/8" TYPE 'X' GYPSUM BOARD
ONE-HOUR RATED UL #465
WATER PROOFING MEMBRANE EXTENDED 12" VERT. & 12" UNDER FLOOR FINISH.
BASE TILE AS SCHEDULED
RUBBER BASE AS SCHEDULED
E1
R-13 SOUND BATTS

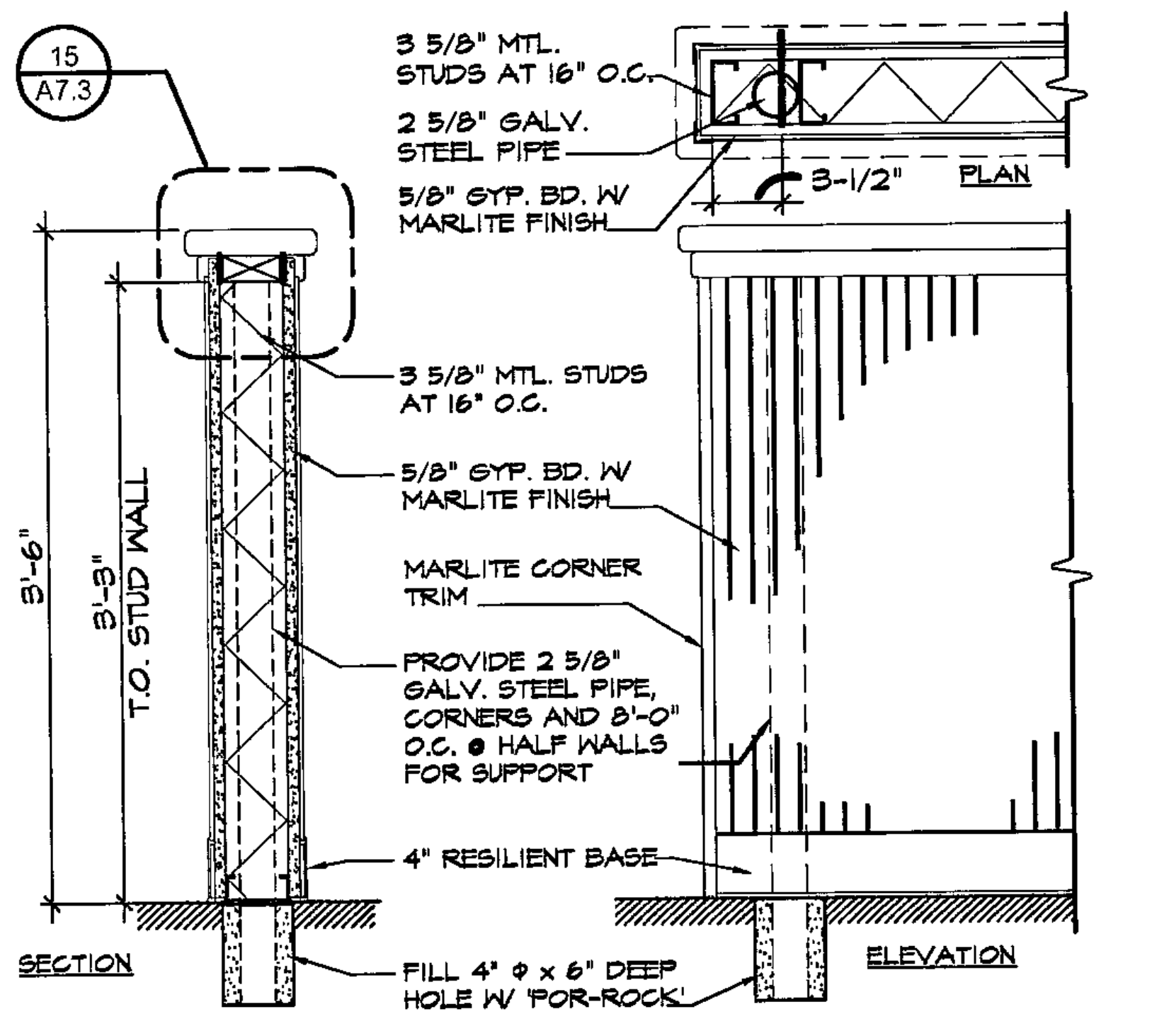
E WALL TYPE

SCALE: 1-1/2" = 1'-0"


DIAGONAL BRACING AT 45° TO ROOF FRAMING AT 4'-0" STAGGERED CTRS.
NOTE, RE: A2.0 & A2.1 FOR ALL FLOOR AND WALL FINISHES
METAL STUD REF. PLAN FOR SIZE
6"
2"
1°
TILE, FRP OR PAINT FINISH
CEILING TILE, RE: RCP FOR HEIGHTS
5/8" GYPSUM BOARD
WATER PROOFING MEMBRANE EXTENDED 12" VERT. & 12" UNDER FLOOR FINISH.
12"H CEMENT BOARD
FLOOR FINISH AS SCHEDULED
12"
BASE TILE AS SCHEDULED

A WALL TYPE

SCALE: 1-1/2" = 1'-0"


15 A7.3
3 5/8" MTL. STUDS AT 16" O.C.
2 5/8" GALV. STEEL PIPE
5/8" GYP. BD. W/ MARLITE FINISH
3-1/2"
PLAN
3 5/8" MTL. STUDS AT 16" O.C.
5/8" GYP. BD. W/ MARLITE FINISH
MARLITE CORNER TRIM
PROVIDE 2 5/8" GALV. STEEL PIPE, CORNERS AND 8'-0" O.C. @ HALF WALLS FOR SUPPORT
4" RESILIENT BASE
3'-6"
3'-3"
T.O. STUD WALL
SECTION
FILL 4" Φ x 6" DEEP HOLE W/ 'POR-ROCK'
ELEVATION

H WALL TYPE

SCALE: 1" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2095
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

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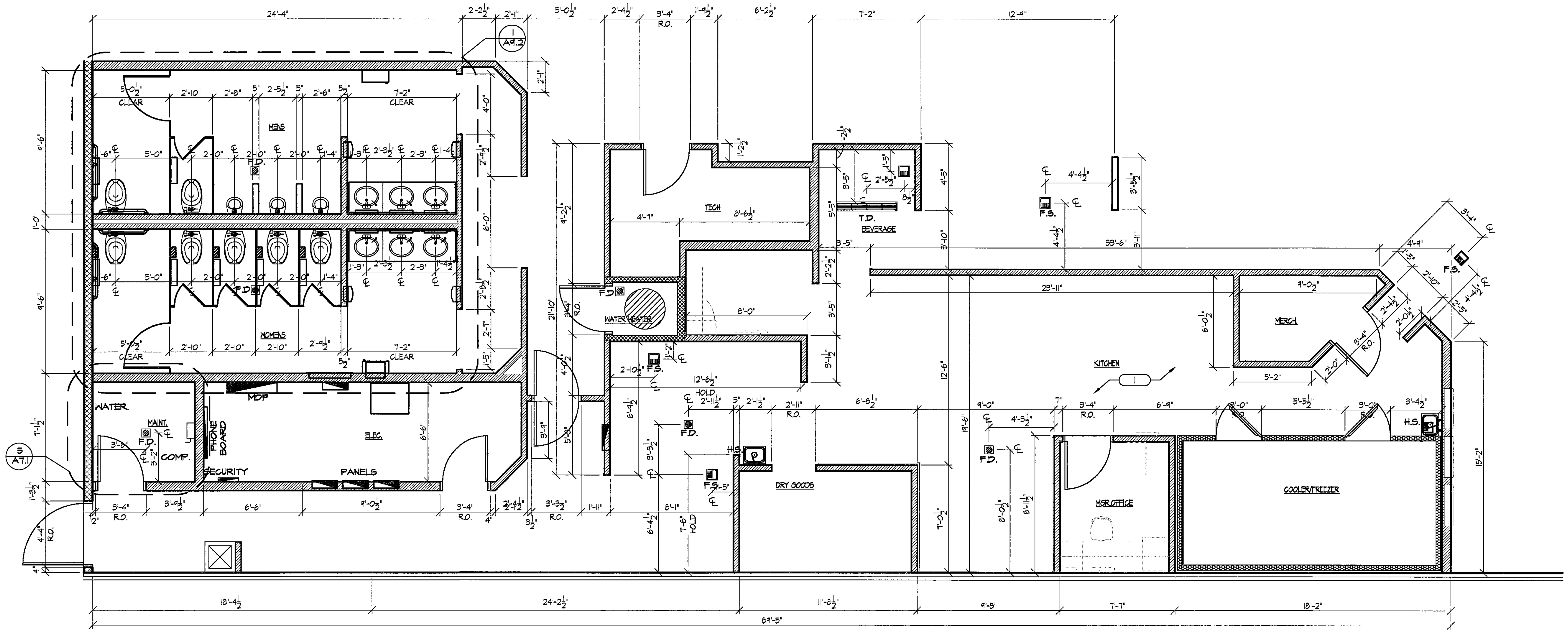
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

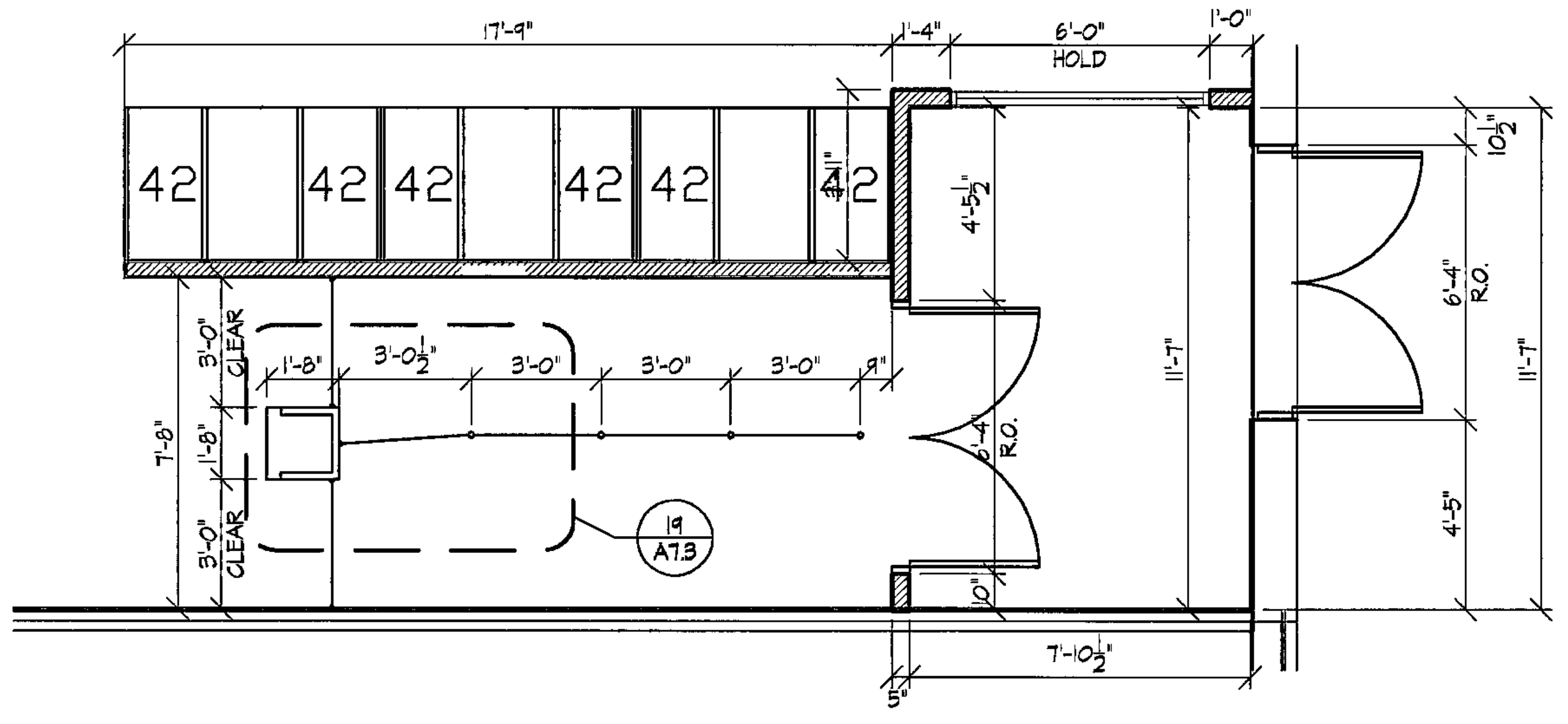
DIMENSIONED FLOOR PLAN

A1.0



01 ENLARGED KITCHEN AND RESTROOM

SCALE: 1/4" = 1'-0"



02 KID CHECK AREA

SCALE: 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. EXTERIOR DIMENSIONS SHOWN TO EDGE OF SLAB OR FOUNDATION, ALL OTHER DIMENSIONS TO FACE OF STUD.
2. INTERIOR "CLEAR" DIMENSIONS ARE FINISH DIMENSIONS, "HOLD" ARE TO STUDS.
3. SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
4. ALL INTERIOR PARTITIONS ARE TO BE BUILT AS SHOWN ON A1.0 EXCEPT WHERE NOTED OTHERWISE.
5. METAL STUDS ARE TO BE 20 GAUGE AT 16" O.C. UNLESS OTHERWISE NOTED.
6. CONSTRUCT RATED PARTITIONS IN ACCORDANCE WITH REQUIREMENTS OF NOTED FIRE RATED DESIGN ASSEMBLIES.
7. SET FLOOR TRACK ON CONTINUOUS BEADS OF ACOUSTICAL SEALANT ON BOTH SIDES.
8. PROVIDE INSULATION IN WALLS AS INDICATED ON WALL TYPES.
9. ALL GYPSUM BOARD TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. GYPSUM BOARD SHALL BE TAPED AND BEDDED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS. SEE SPECIFICATIONS.
10. PROVIDE WOOD BLOCKING IN PARTITIONS AS REQUIRED. COORDINATE WITH THE OWNER ON ITEMS/FIXTURES AND EQUIPMENT INSTALLED BY THE OWNER THAT MAY REQUIRE BLOCKING.
11. WALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING.
12. ELECTRICAL BOXES SHALL NOT BE MOUNTED BACK TO BACK. BOXES SHALL BE SEALED TO GYPSUM BOARD WITH RESILIENT CAULK.

LEGEND:
F.S. FLOOR SINK (SLAB PENETRATION)
F.D. FLOOR DRAIN (SLAB PENETRATION)
H.S. HAND SINK (SLAB PENETRATION)
T.D. TRENCH DRAIN (SLAB PENETRATION/LEAVE-OUT)

REGISTRATION SEAL

No. 2395

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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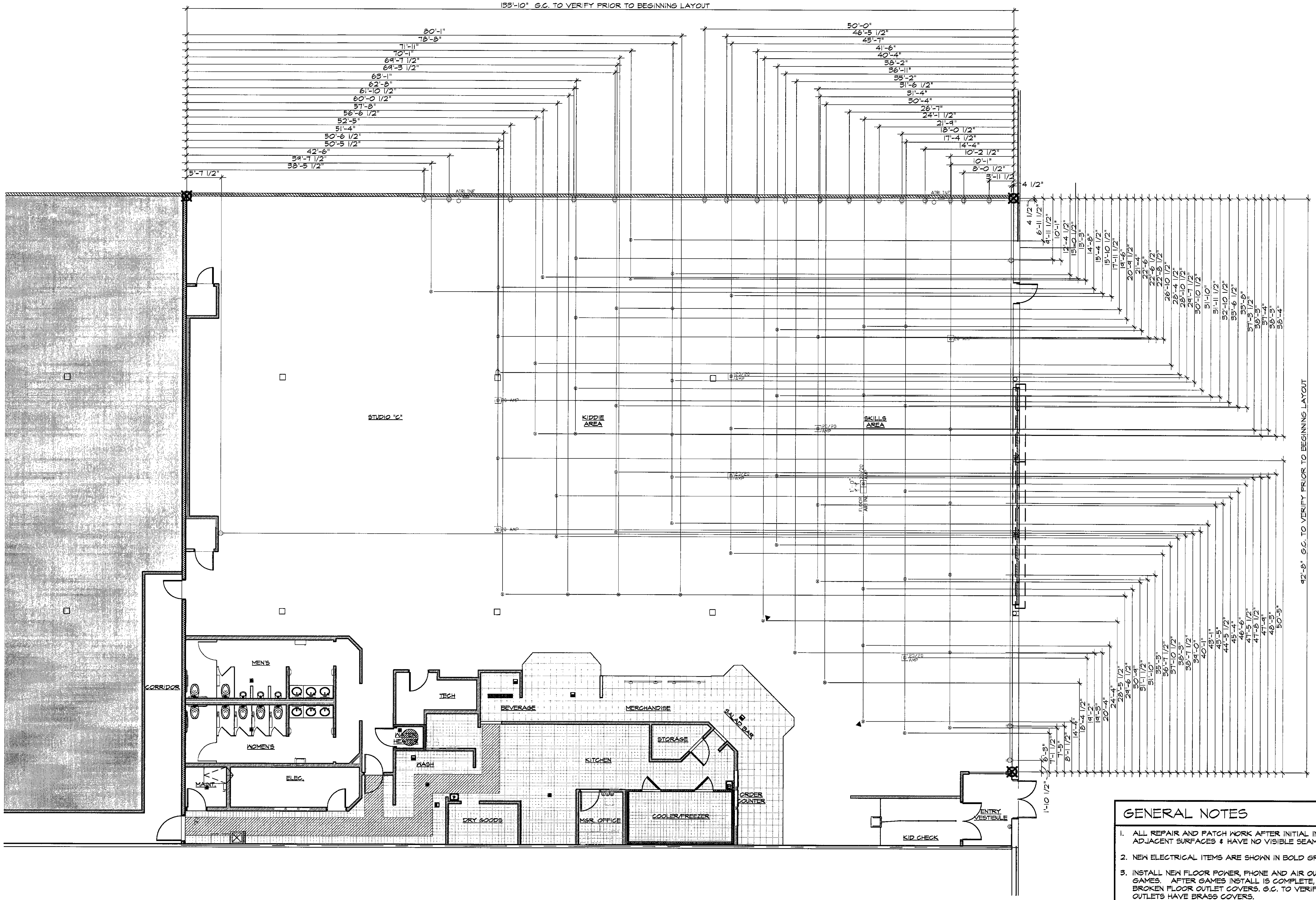
ENLARGED PLANS

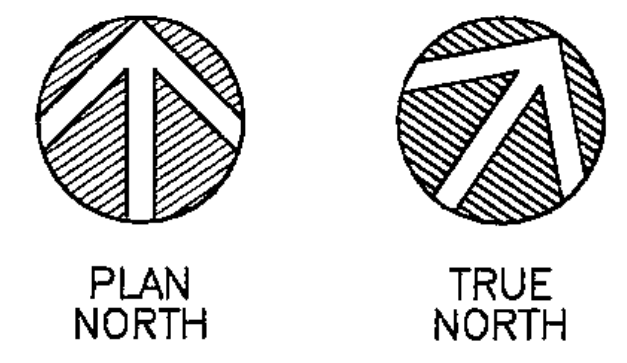
A1.1



01 DIMENSIONED OUTLET PLAN

SCALE: 1/8" = 1'-0"

⊠ START POINT — NOTE: START POINT - TO START AT IN SIDE FACE OF FINISH WALL, UNLESS NOTED OTHERWISE



GENERAL NOTES

1. ALL REPAIR AND PATCH WORK AFTER INITIAL INSTALLATION SHALL MATCH ADJACENT SURFACES & HAVE NO VISIBLE SEAMS.
2. NEW ELECTRICAL ITEMS ARE SHOWN IN BOLD GRAPHICS ON PLAN(S).
3. INSTALL NEW FLOOR POWER, PHONE AND AIR OUTLETS, AS DETERMINED BY GAMES. AFTER GAMES INSTALL IS COMPLETE, REPLACE ANY EXPOSED BROKEN FLOOR OUTLET COVERS. G.C. TO VERIFY THAT ALL FLOOR OUTLETS HAVE BRASS COVERS.

FLOOR LEGEND

⊡ 20 AMP	20 AMP POWER SUPPLY	⊙	FLOOR MOUNT DUPLEX POWER OUTLET
AIRLINE	WALL MOUNT AIRLINE POWER SUPPLY	⊖	WALL MOUNT DUPLEX POWER OUTLET @ 18" A.F.F.
FLOOR AIRLINE 1'-0"	FLOOR MOUNT AIRLINE POWER SUPPLY	▶	PHONE JACK, FLOOR OR WALL @ 18" A.F.F.

REGISTRATION SEAL

FREDERICK J. GOGLIA REGISTERED ARCHITECT No. 2956 ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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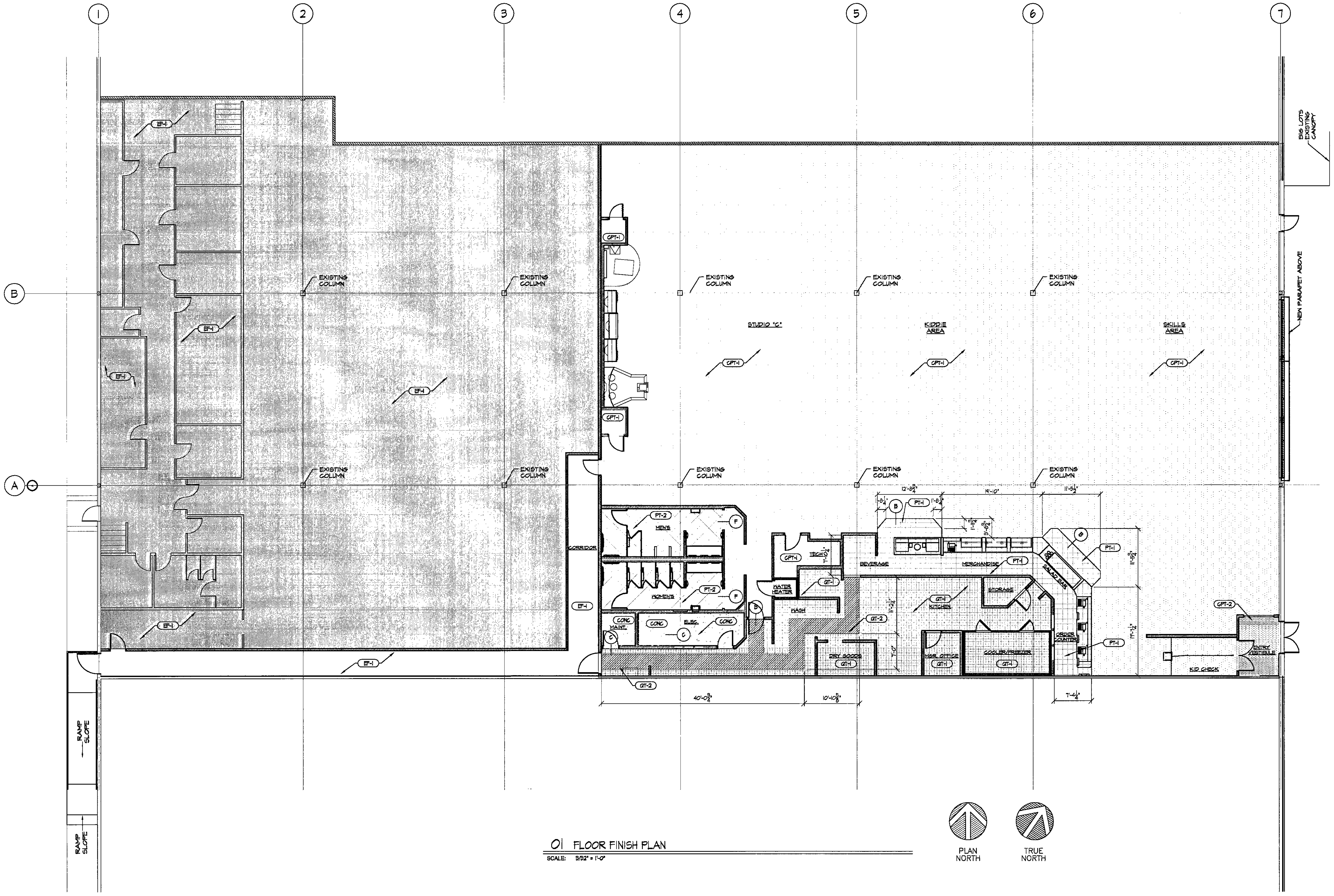
DIMENSIONED OUTLET PLAN

A1.2



01 FLOOR FINISH PLAN

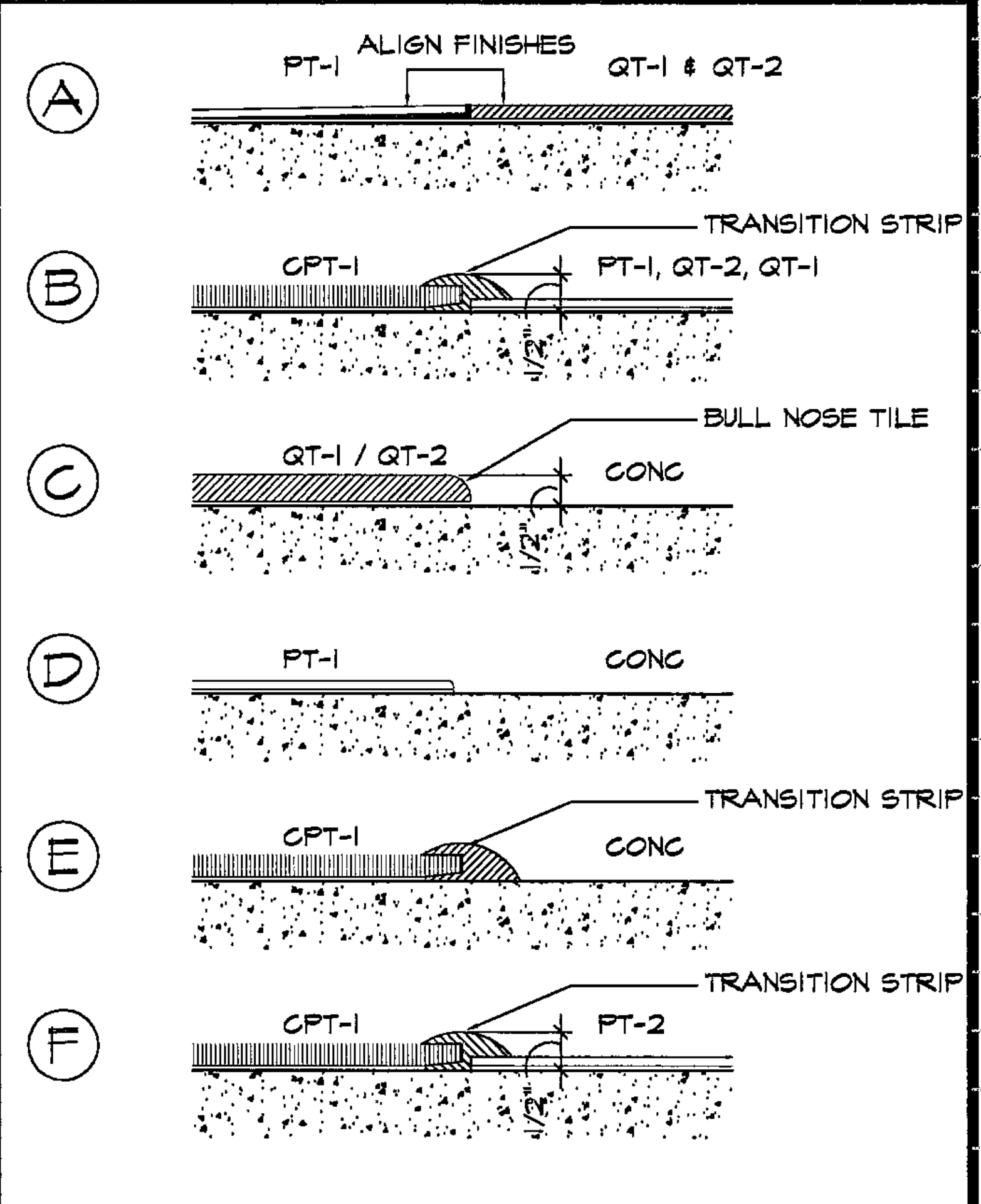
SCALE: 3/32" = 1'-0"

FLOOR FINISH KEYNOTES

PT-1	TYPE: FLOOR TILE SIZE: 12" x 12" GROUT: MFGR. PBG1925 "PEWTER" TILES: CC19CEC-12X12 GRANTI ABR., CC19CB- 6X12 GRANTI, CC191C-1X6 GRANTI
PT-2	TYPE: FLOOR TILE SIZE: 20"x20" INTERCERAMIC INDIAN STONE AUTUMN RUST (INSTALL AT DIAGONAL) COVE: 7/16" X 7/16" STAINLESS STEEL W/ 6" X 13" INDIAN STONE AUTUMN RUST BASE. GROUT: MAPEI #42 - "MOCHA" USE 1/16" GROUT LINES
CPT-1	INTERFACE CARPET (ITEM# 174702, CUBIC COLOURS, SAMPLE COLOUR 248360-003) AND BASE (BURKE #217 "CHARCOAL") CARPET TO BE SUPPLIED BY THE OWNER, BASE TO BE SUPPLIED BY THE CONTRACTOR
CPT-2	INTERFACE (STYLE 62302040) DECO DIAGONAL TILE (COLOR 602391 ANTHRACITE) AND CHARCOAL BASE (VESTIBULE ONLY)
CONC	EXPOSED CONCRETE - SEAL WITH GRAY EPOXY
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV10Q- 6X6 "RED ABRASIVE" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
EF-1	EXISTING FLOORING TO REMAIN.

NOTE: ALL FINISHES TO BE INSTALLED BY G.C. UNLESS NOTED OTHERWISE

FLOOR TRANSITION TYPES



FINISH LEGEND

CONC	EXPOSED CONCRETE - SEAL WITH GRAY EPOXY
PT-1	TYPE: FLOOR TILE SIZE: 12" x 12" GROUT: MFGR. PBG1925 "PEWTER" TILES: CC19CEC-12X12 GRANTI ABR., CC19CB- 6X12 GRANTI, CC191C-1X6 GRANTI
PT-2	TYPE: FLOOR TILE SIZE: 20"x20" INTERCERAMIC INDIAN STONE AUTUMN RUST (INSTALL AT DIAGONAL) COVE: 7/16" X 7/16" STAINLESS STEEL W/ 6" X 13" INDIAN STONE AUTUMN RUST BASE. GROUT: MAPEI #42 - "MOCHA" USE 1/16" GROUT LINES
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV10Q- 6X6 "RED ABRASIVE" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
CPT-1	INTERFACE CARPET (ITEM# 174702, CUBIC COLOURS, SAMPLE COLOUR 248360-003) AND BASE (BURKE #217 "CHARCOAL") CARPET TO BE SUPPLIED BY THE OWNER, BASE TO BE SUPPLIED BY THE CONTRACTOR
CPT-2	INTERFACE (STYLE 62302040) DECO DIAGONAL TILE (COLOR 602391 ANTHRACITE) AND CHARCOAL BASE (VESTIBULE ONLY)
	BOUNDARY OF NEW CARPET TO BE "CEC PASSION" BY HARBINGER AND BASE (BURKE #217 "CHARCOAL")
EF-1	EXISTING FLOORING TO REMAIN.

NOTE: ALL FINISHES TO BE INSTALLED BY G.C. UNLESS NOTED OTHERWISE

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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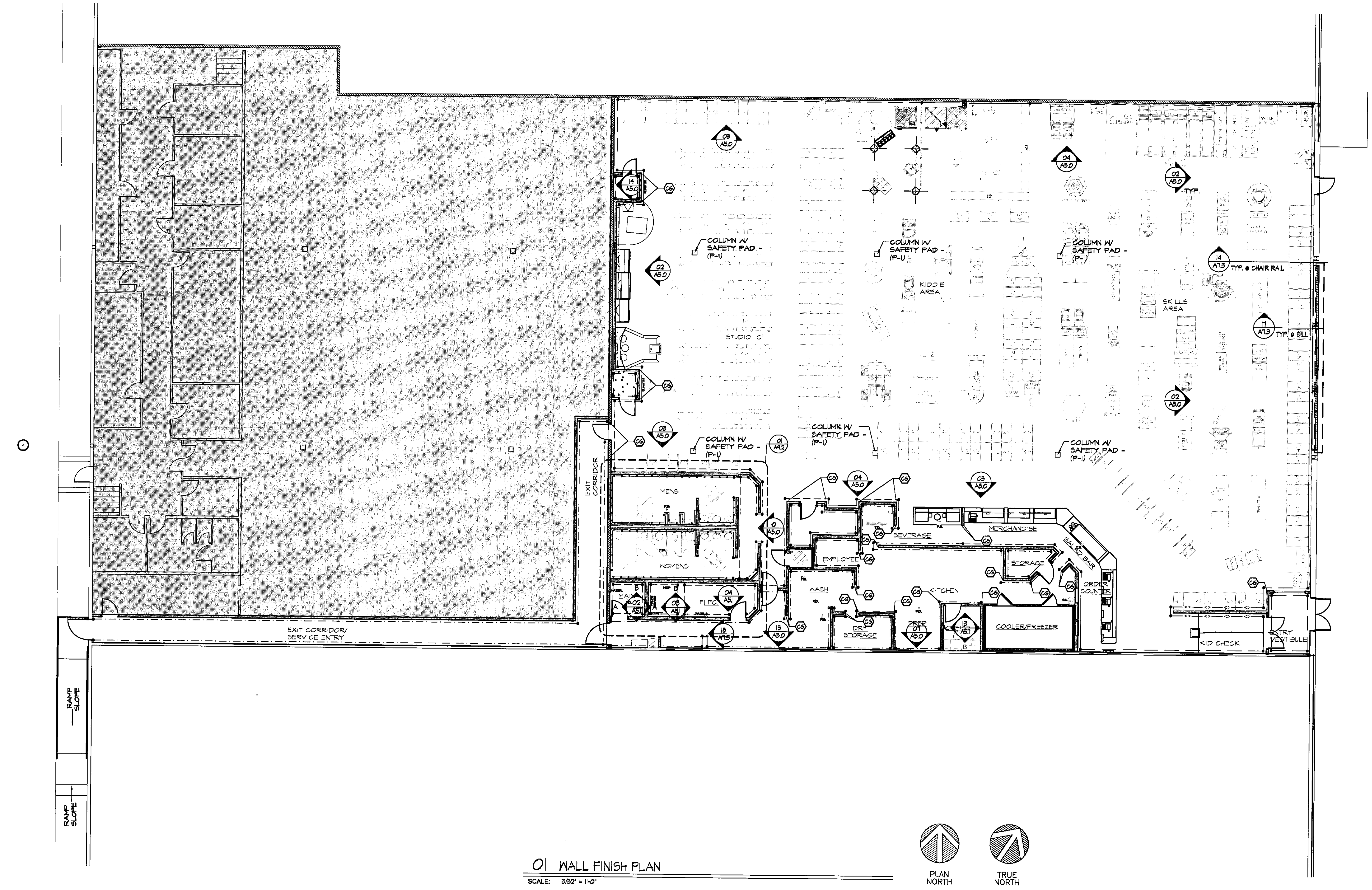
FINISH FLOOR PLAN

A2.0



01 WALL FINISH PLAN
SCALE: 3/32" = 1'-0"

WALL FINISH LEGEND

●	FINISH TRANSITION
●·—·—·—·●	FRP
●— — — —●	MARLITE WALL PANEL AND CHAIR RAIL W/ PAINT ABOVE (P-2 "WHITE WOOL")
●————●	MARLITE WALL PANEL AND CHAIR RAIL W/ PAINT ABOVE (P-4 "CORSICAN PURPLE")
●- - —— - - -●	PAINT WALL (P-2 "WHITE WOOL")
●··—··—··—··●	PAINT WALL (P-5 "FLAT BLACK")
●—<>—<>—<>—●	MARLITE WALL AND CHAIR RAIL
●-·-·-·-·-·-●	CERAMIC WALL TILE W/ PAINT ABOVE (P-6 LATTE) - SEE SHEET A9.1
HEADER (P-2) E.S.	PAINT HEADER (P-2 "WHITE WOOL") EACH SIDE
COLUMN W/ SAFETY PAD - (P-1)	PAINT ALL SIDES OF COLUMN (P-1 "HOLLYBERRY RED") INSTALL SAFETY PADS AS DIRECTED
CG	PLASTIC CORNER GUARDS - SEE DETAIL 20/A7.3
OT	OAK TRIM @ CORNERS

WALL FINISH SPECIFICATIONS

1. PAINT FINISH: ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
2. PAINT SPECIFICATIONS: FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEC MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
3. ALL PRODUCTS LISTED: ARE AVAILABLE THRU SHERWIN WILLIAMS.NATIONAL ACCOUNT MANAGER, JOHN W GASTON (214-553-3940 - OFFICE) (CELL 214-728-6696) D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
4. P-1 HOLLYBERRY RED - USED ON EXPOSED METAL COLUMNS METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.
   METAL PAINT - CUSTOM FORMULA:
   BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING:
   844 COLORANTS - QV-40, QR-32, TW-16. THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES.
5. P-2 WHITE WOOL SW1354 - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY/APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS)
   NOTE: ON FIRE EXIT DOORS AND FRAMES
   PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMIK UNIVERSAL PRIMER, B50Z SERIES.)
6. P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
7. P-4 CORSICAN PURPLE SW1825 - FOR ACCENT GYPSUM WALL.
   DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL. (TWO COATS)
8. P-5 FLAT BLACK - USED ON INTERIOR BACK WALL OR ANIMATED SHOW
   PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
9. P-6 LATTE SW6108 - RESTROOM WALLS
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
10. P-7 CEILING EXTRA WHITE SW7006 - RESTROOM CEILING & SHELVING / KITCHEN DOORS / FRAMES
    PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
11. ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.) -
    1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S 64 SERIES (CHERRY)-S64R6WITH 4 OZ. #844 "RED OXIDE"
    2ND COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% - T67F3.
    3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER, T57C15
    4TH COAT - SAME AS THIRD COAT.
12. W-2 F.R.P. PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
13. W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
14. W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"

WALL FINISH NOTES

1. PROVIDE STAINLESS STEEL CORNER GUARDS AT KITCHEN AREA AS INDICATED ON PLAN 01/K1.0.
2. REFER TO DRAWING A9.1 FOR TOILET ROOM FINISH INFORMATION AND SPECIFICATIONS.
3. SEE DRAWINGS A5.0 AND A5.1 FOR INTERIOR ELEVATIONS.

REGISTRATION SEAL
No. 2995

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
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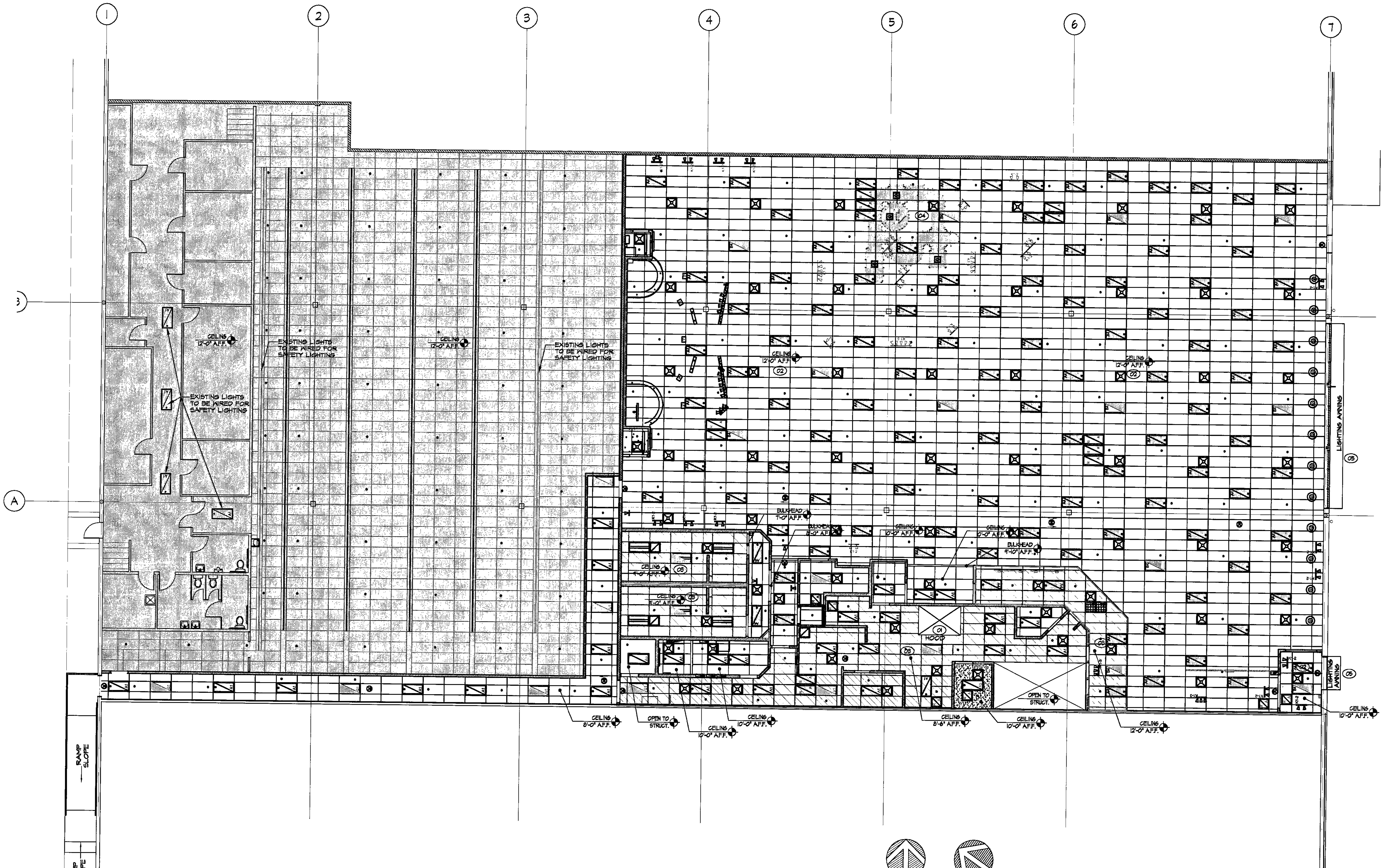
WALL FINISH PLAN

A2.1



01 REFLECTED CEILING PLAN

SCALE: 3/32" = 1'-0"

RCP GENERAL NOTES

1. NO FIXTURES, GRILLES, SPEAKERS, SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING T'S OR SHADOW LINE; CENTER IN PANEL.
2. PAINT ALL GRILLES AND RECESSED SPEAKERS TO MATCH CEILING GRID.
3. ALL SPEAKER WIRE SHALL HOME RUN TO CONTROL ROOM RACK. REF. ELEC. DWGS. FOR CONNECTIONS.
4. EXIT SIGNAGE TO BE INSTALLED PER OSSC 1011.
5. CEILING GRID INSTALLATION SHALL BE PER SECTION 9.6 OF ASCE 7-02 AND CISCA GUIDELINES FOR SEISMIC ZONES 3-4.
6. REFER TO DETAIL 06/A7.4 FOR TYPICAL LIGHT BRACING REQUIREMENTS.
7. REFER TO DETAIL 09/A7.4 FOR CEILING LATERAL TIE REQUIREMENTS.
8. G.C. IS RESPONSIBLE FOR COORDINATION AND VERIFICATION OF POWER FOR SIGNAGE / AWNINGS PRIOR TO INSTALLATION
9. ALL NON-RATED PARTITIONS TO TERMINATE 6" ABOVE FINISHED CEILING. SEE WALL TYPES, DWG. A1.0 FOR ADDITIONAL INFORMATION.
10. ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOM U.N.O.
11. REFER TO DETAIL 03/A7.4 FOR FIRE SPRINKLER PIPING SUPPORT DETAIL.
12. COORDINATE ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS THAT ARE SUPPORTED BY INTERFACE W/ CEILING SYSTEMS.
13. ALL INSULATION WIRING AND OTHER CONSTRUCTION ITEMS SHALL BE NON-COMBUSTIBLE AND RATED AS REQUIRED BY CODE FOR WORK IN PLENUM SPACES WHERE INDICATED.

RCP LEGEND

2X4 EXISTING GRID TO REMAIN
2X4 GRID & LAY-IN ACOUSTIC TILE (LT-1)
2X4 GRID & VINYL FACED LAY-IN TILE (LT-2)
2X4 VINYL FACED LAY-IN TILE (LT-3)
GYP BD. CEILING
2X4 LAY-IN FLUORESCENT FIXTURE
2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP
A1 2X4 LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS
A1 2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & ACRYLIC LENS
A4 2X4 LAY-IN FLUORESCENT FIXTURE W/ EGGCRATE GRILLE
2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & EGGCRATE GRILLE
A6 2X2 LAY-IN FLUORESCENT FIXTURE W/ EGGCRATE GRILLE
MERCHANDISE LIGHT MOUNTED 3'-0" AWAY FROM WALL
PA SPEAKER (CEILING)
SP2 SPEAKER (BRACKET MOUNTED)
EXTERIOR WALL PACK
C1 EXTERIOR WALL SCONCE
C2 EXTERIOR DIAMOND LIGHT FIXTURE
D5 RECESSED DOWNLIGHT
STRAIGHT-SIDED UTILITY CHANNEL UTILITY FLUORESCENT STRIP LIGHT
G4 NEW G-4 PENDANT. CENTER OVER BOOTH TOPS MOUNT 60" A.F.F.
SPOT LIGHT W/ MONOPOINT MOUNT
K1-4 LIGHT TRACK (LENGTH AND HEADS AS SHOWN ON DRAWING) - SEE 05/A7.4
LP-22 RESTROOM VANITY WALL LIGHT
X1 EXIT LIGHT
X2 EMERGENCY LIGHT (CEILING MOUNTED)
FIRE STROBE / HORN
RETURN AIR GRILLE
EXISTING SUPPLY DIFFUSSER TO REMAIN
EXISTING SUPPLY DIFFUSSER TO BE RELOCATED
CEILING OUTLET
SPRINKLER HEAD
T.V. TELEVISION (BRACKET MOUNTED)

NOTE: REFER TO MECH. AND ELECT. DRAWINGS FOR FIXTURE SPECIFICATIONS.

REFLECTED CEILING KEYNOTES

EXAMPLE: A3.24 = ㉔

A3.01 OVEN HOOD: STAINLESS STEEL OVEN HOOD - REFER TO DRAWING K3.0 FOR OVEN HOOD DETAILS.

A3.02 NEW CEILING TILE & GRID: PROVIDE AND INSTALL NEW CEILING TILE (ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24X48X3/4") WITH NEW XL 15/16" EXPOSED TEE GRID SYSTEM.

A3.03 NEW VINYL CEILING TILE & GRID: PROVIDE AND INSTALL NEW VINYL CEILING TILE (ARMSTRONG #670 VINYL FACED G.L.I.P. 24X48X1/2") WITH NEW PRELUDE XL WHITE GRID.

A3.04 SKYCRAWL: NEW FLOOR MOUNTED SKYCRAWL WITH NEW CEILING POWER.

A3.05 LIGHTED AWNING: LIGHTED AWNINGS BY OWNER'S SIGN COMPANY - SEE DETAIL 17/A7.2 FOR MOUNTING INFORMATION.

FINISH KEY

09510 ACOUSTICAL LAY-IN CEILINGS

LT-1 ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24" x 48" x 3/4" WITH XL HA 15/16" EXPOSED TEE SYSTEM (COLOR: HAZE)

LT-2 ARMSTRONG #670 VINYL FACED G.L.I.P. 24" X 48" X 1/2" WITH PRELUDE XL WHITE GRID

LT-3 LT-2 CUSTOM MATCHED TO HAZE ARMSTRONG CEILING TILE AND GRID (LT-1). GRID TO MATCH CEILING TILE COLOR IN PUBLIC AREAS.
PAINT: B30 W401, N1-2Y, P1-4

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

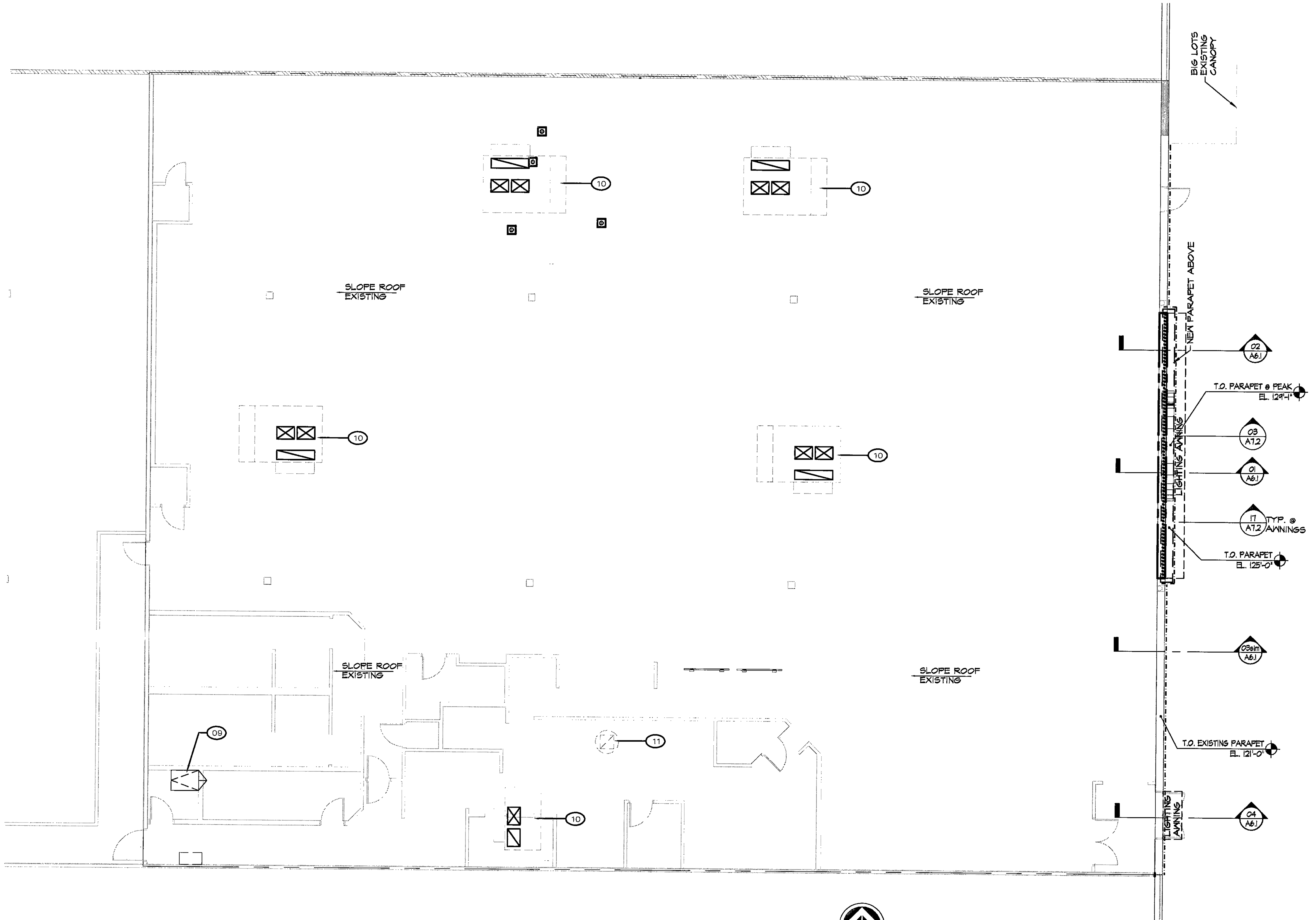
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

REFLECTED CEILING PLAN

A3.0

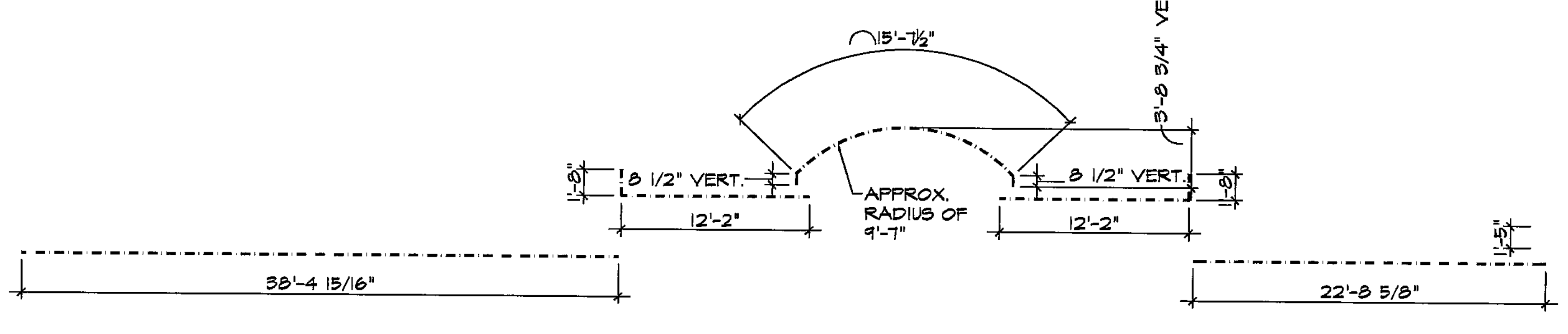


01 PARTIAL EXISTING ROOF PLAN

SCALE: 1/8" = 1'-0"

PLAN NORTH

NOTE: G.C. TO PROVIDE NEW "J"-BOX. MOUNT APPROXIMATELY 12" BACK FROM PARAPET ON ROOF (ENSURE PROPER WATER PROOFING) IN APPROXIMATE INDICATED LOCATION. POWER L.E.D. THROUGH TIME CLOCK.



02 L.E.D. PLAN - FRONT SIDE

SCALE: 1/8" = 1'-0"

PLAN NORTH

KEY NOTES

EXAMPLE: A3.1.24 = (24)

A3.01 CRICKETS: FORM ALL ROOF CRICKETS WITH TAPERED ROOF INSULATION. CRICKETS SHALL SLOPE MINIMUM 1/2" PER 1'-0".

A3.02 EQUIPMENT CRICKETS: INSTALL TAPERED CRICKETS AT ALL ROOFTOP EQUIPMENT TO PROVIDE POSITIVE DRAINAGE AROUND EQUIPMENT.

A3.03 ROOFING SYSTEM: EXISTING.

A3.04 PARAPET FLASHING: INSTALL 45 MIL. TPO "WHITE" MEMBRANE FROM MIN. 18" ABOVE ROOF LINE AND EXTEND UP PARAPET WALL AND TURN UNDER COPING CAP, OR E.I.F.S. FINISH.

A3.05 ROOF TERMINATION: INSTALL TERMINATION BAR 18" MIN. ABOVE ROOF LINE TO TERMINATE BUILT-UP ROOFING SYSTEM. SEE DETAIL 16/A7.1.

A3.06 WALKWAY PADS: INSTALL TPO WALKWAY PADS AT APPROXIMATELY 30" O.C.. WALKWAY PADS SHOULD BEGIN AT THE ROOF ACCESS HATCH AND EXTEND TOO ALL ROOFTOP HVAC EQUIPMENT, EXHAUST FANS, COMPRESSORS, AND L.E.D. / SIGNAGE JUNCTION BOX LOCATIONS. G.C. TO PROVIDE EXACT LAYOUT TO OWNER FOR APPROVAL PRIOR TO FINAL INSTALLATION.

A3.07 COPING CAP: ALL COPING CAPS TO BE PREFINISHED OR PAINTED 24 GA. SHEET METAL. NO PAINTING IS PERMITTING FOR PREFINISHED MATERIALS AFTER INSTALLATION.

A3.08 RADIUSED COPING CAP: RADIUSED COPING CAP TO BE PREFORMED 18 GA. SHEET METAL. COPING CAP TO BE SHOP FABRICATED AND ALL JOINTS TO BE WELDED, GRIND SMOOTH AND READY FOR FINISH. G.C. TO FIELD VERIFY EXACT RADIUS IN THE FIELD PRIOR TO FABRICATION. COPING CAP TO BE PREFINISHED TO MATCH ALL THE OTHER COPING CAPS.

A3.09 ROOF HATCH: INSTALL 32" X 40" ROOF HATCH BY BILCO. PROVIDE LADDER EXTENSION PER OSHA REQUIREMENTS. SEE DETAIL 04/A7.1.

A3.10 ROOFTOP HVAC EQUIPMENT: COORDINATE EXACT LOCATION OF ROOF TOP UNITS WITH MECHANICAL DRAWINGS. ANY VARIATION TO UNIT LOCATION, SIZE, WEIGHT AND MANUFACTURER AS INDICATED IN THE DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

A3.11 EXHAUST FAN EQUIPMENT: COORDINATE EXACT LOCATION OF EXHAUST UNITS WITH MECHANICAL DRAWINGS. ANY VARIATION TO UNIT LOCATION, SIZE, WEIGHT AND MANUFACTURER AS INDICATED IN THE DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

A3.12 COMPRESSOR EQUIPMENT: COORDINATE EXACT LOCATION OF COMPRESSOR EQUIPMENT WITH MECHANICAL DRAWINGS. ANY VARIATION TO UNIT LOCATION, SIZE, WEIGHT AND MANUFACTURER AS INDICATED IN THE DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

A3.13 ROOF DRAINAGE: EXISTING

GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL SET ALL OWNER-PROVIDED EQUIPMENT ON ROOF.
2. VERIFY & COORDINATE DUCT CURB AND ROOF PENETRATION LOCATIONS; SEE MECHANICAL / ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
3. VERIFY LOCATIONS OF ALL HVAC UNIT - ELECTRICAL, GAS AND CONDENSATE DRAIN PENETRATIONS WITH UNITS' MANUFACTURER.
4. PLUMBING VENTS OR EXHAUST UNITS ARE NOT ALLOWED WITHIN 10'-0" OF AIR INTAKES OR 5'-0" OF EXTERIOR WALLS.
5. ALL ROOF PENETRATIONS SHALL BE LOCATED 3'-0" OR MORE FROM FLOW LINES.
6. COORDINATE WITH STRUCTURAL DRAWINGS FOR ROOF STRUCTURE BEARING HEIGHTS. ROOF SLOPES SHALL NOT BE LESS THAN 1/4" PER FOOT.
7. ALL SHEET METAL FLASHING TO COMPLY WITH THE "ARCHITECTURAL SHEET METAL MANUAL", 2003 EDITION AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).
8. ROOFING CONTRACTOR SHALL FURNISH & INSTALL ALL REGLETS.
9. ALL SHEET METAL FLASHING AND CAPS EXPOSED TO THE PUBLIC SHALL BE PAINTED OR PREFINISHED TO MATCH ADJACENT FINISH COLOR. SEE BUILDING ELEVATION FOR COLOR SPECIFICATIONS. ALL OTHER FLASHING TO BE GALVANIZED.
10. ALL GAS LINES TO BE LOCATED ON ROOF. - PROVIDE GAS PIPING SUPPORTS AS DETAILED ON DRAWING A7.1.
11. PROVIDE TPO TRAFFIC PADS AROUND EQUIPMENT PER SPECIFICATIONS AND AS INDICATED.
12. TYPICAL ROOFING SYSTEM DETAILS BASED OFF OF THE TPO ROOFING SYSTEM. REFER TO DRAWING A7.1 FOR DETAILS AND SPECIFICATIONS.
13. REFER TO DRAWING A7.1 FOR ALL ROOF SYSTEM DETAILS AND ACCESSORIES.
14. PROVIDE SPLASH BLOCKS @ ALL CONDENSATION DRAINS, TYPICAL.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
ARKANSAS

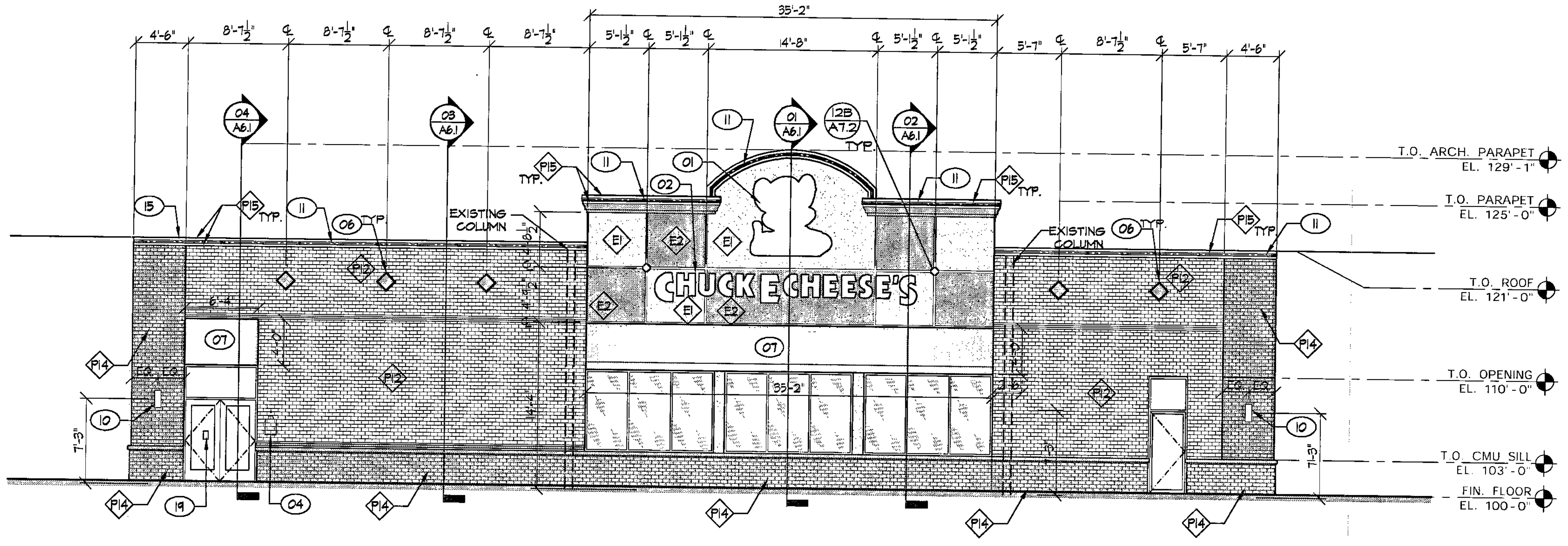
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

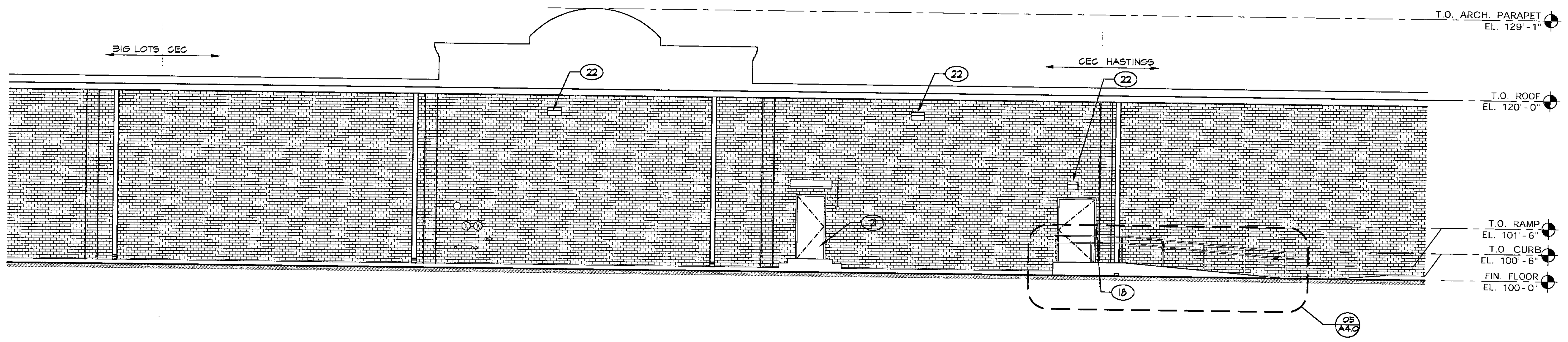
PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
ROOF PLAN

A3.1



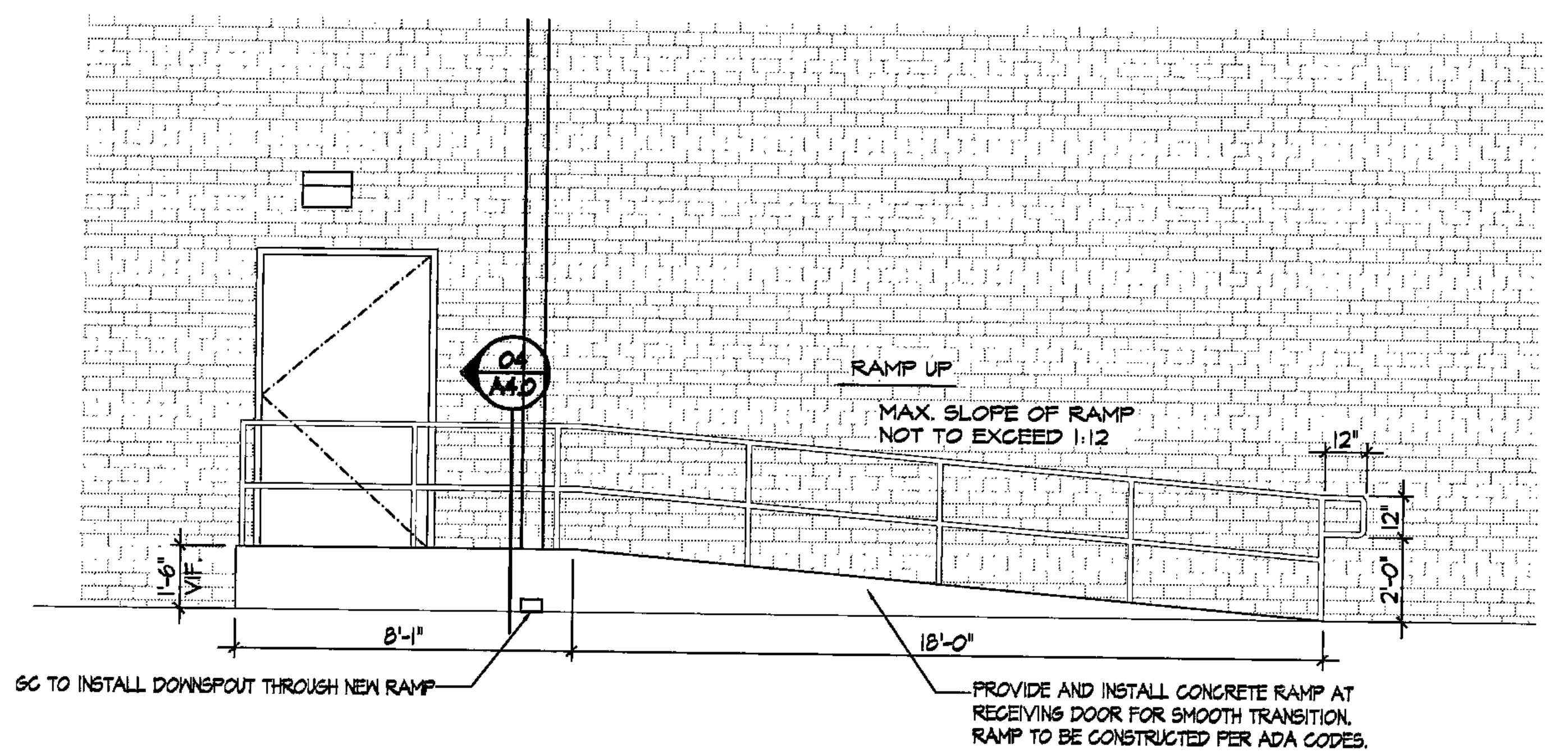
01 FRONT ELEVATION

SCALE: 1/8" = 1'-0"



02 REAR ELEVATION

SCALE: 1/8" = 1'-0"

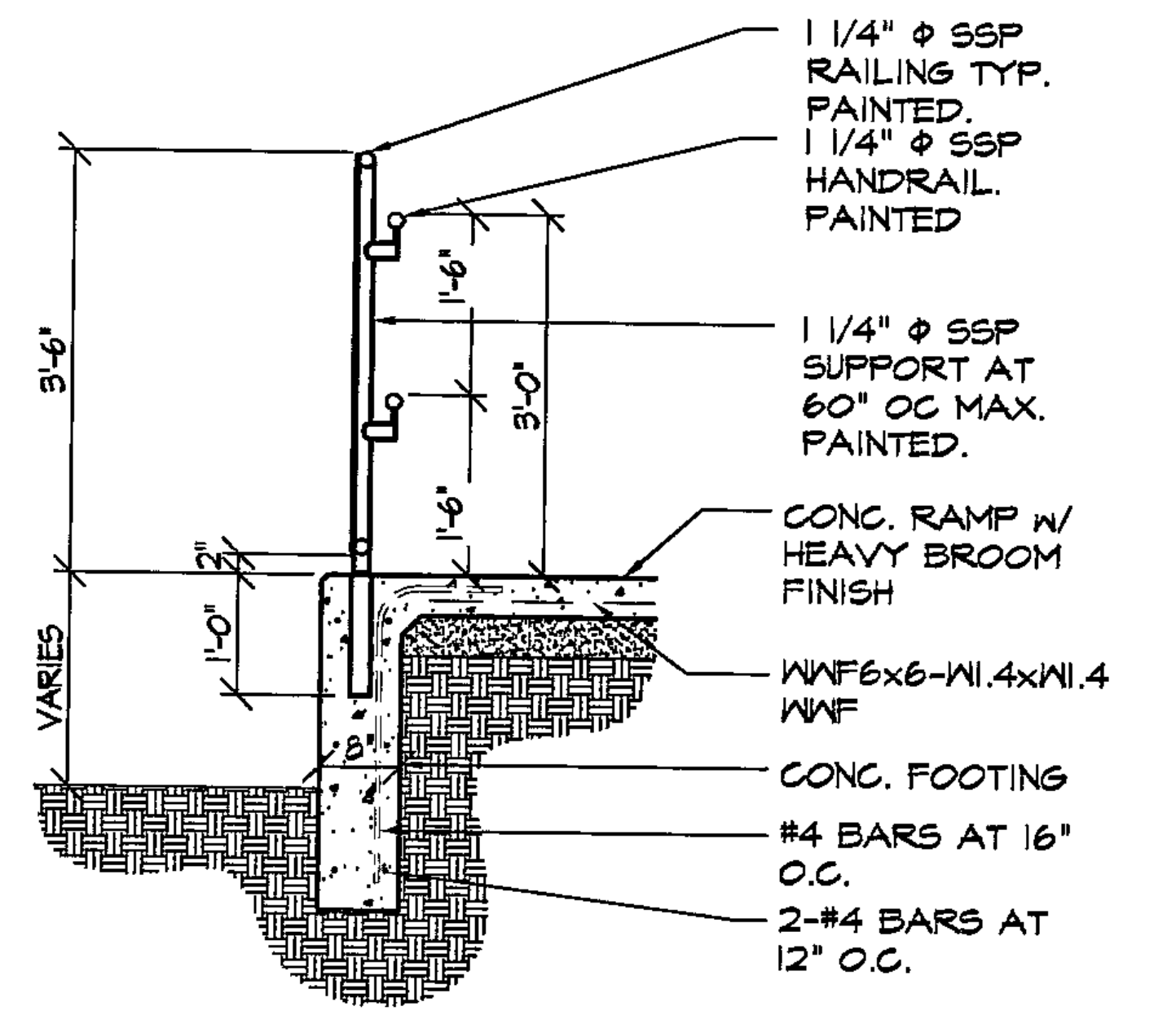


GC TO INSTALL DOWNSPOUT THROUGH NEW RAMP

PROVIDE AND INSTALL CONCRETE RAMP AT RECEIVING DOOR FOR SMOOTH TRANSITION. RAMP TO BE CONSTRUCTED PER ADA CODES.

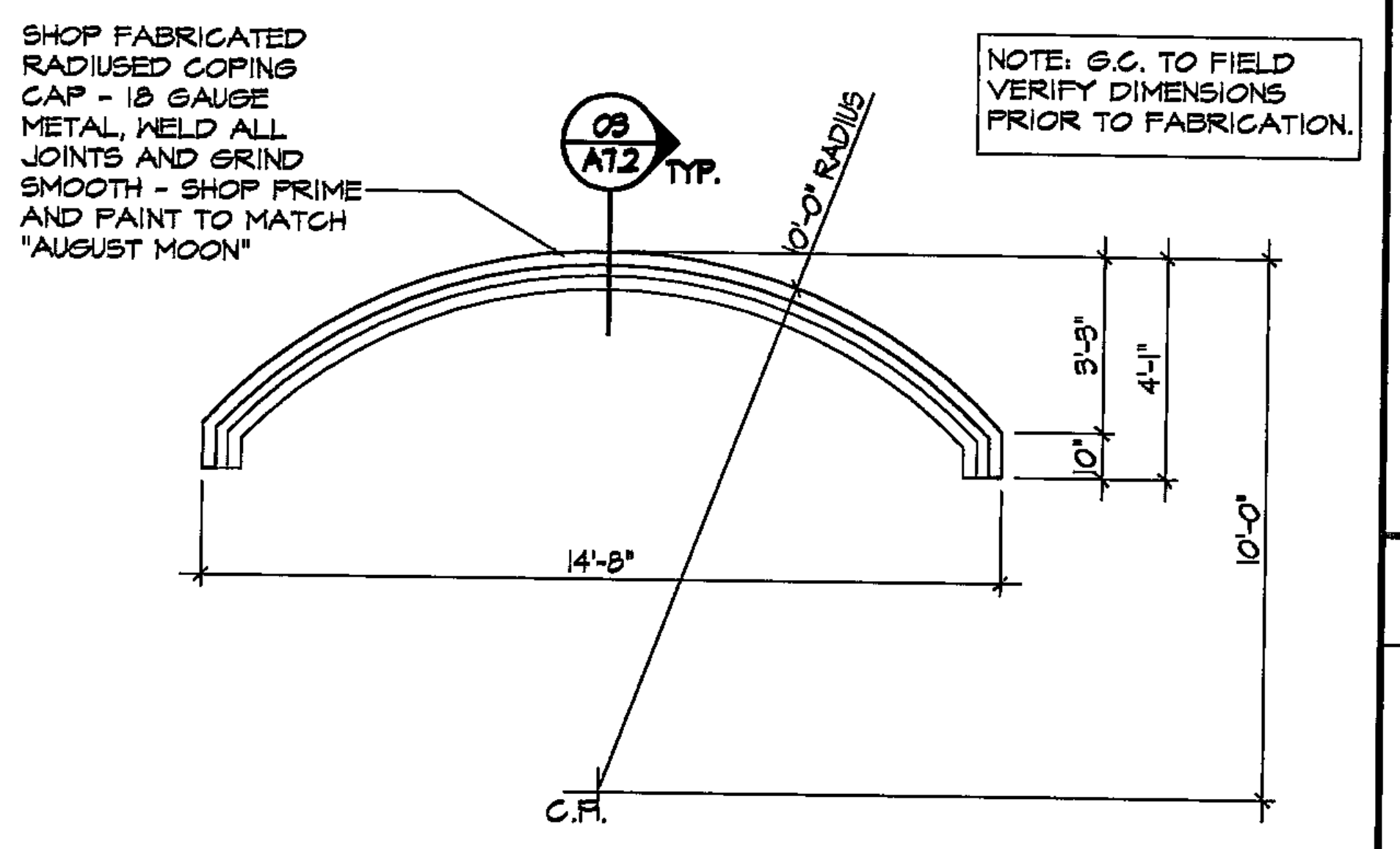
05 ENLARGED RAMP ELEVATION

SCALE: 1/4" = 1'-0"


1 1/4" ϕ SSP RAILING TYP. PAINTED.
1 1/4" ϕ SSP HANDRAIL. PAINTED
1 1/4" ϕ SSP SUPPORT AT 60" OC MAX. PAINTED.
CONC. RAMP W/ HEAVY BROOM FINISH
WWF6x6-W1.4xW1.4 WWF
CONC. FOOTING
#4 BARS AT 16" O.C.
2-#4 BARS AT 12" O.C.
3'-6"
1'-6"
3'-0"
1'-6"
2"
1'-0"
8"
VARIES

04 RAMP SECTION

SCALE: NOT TO SCALE


SHOP FABRICATED RADIUSED COPING CAP - 18 GAUGE METAL, WELD ALL JOINTS AND GRIND SMOOTH - SHOP PRIME AND PAINT TO MATCH "AUGUST MOON"
03 A7.2 TYP.
10'-0" RADIUS
3'-3"
4'-1"
10"
10'-0"
14'-8"
C.R.

NOTE: G.C. TO FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.

03 RADIUSED PARAPET ELEVATION

SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

EXAMPLE: A4.24 = (24)

A4.01 SIGNAGE - LOGO: PROVIDE ILLUMINATED "CHUCK E LOGO" SIGNAGE. SIGN COMPANY TO PROVIDE AND INSTALL SIGNAGE. POWER THROUGH TIME CLOCK.

A4.02 SIGNAGE - LETTERS: SIGN COMPANY TO PROVIDE AND INSTALL ILLUMINATED CHUCK E CHEESE LETTERING SIGNAGE. SIGN COMPANY TO PROVIDE AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION. POWER THROUGH TIME CLOCK.

A4.03 SIGNAGE - PYLON SIGNAGE: ILLUMINATED PYLON SIGNAGE TO BE INSTALLED PER SIGN COMPANY SPECIFICATIONS AND INSTALLATION INSTRUCTIONS UNLESS NOTED OTHERWISE. ALL METAL EDGES/SIDES OF ILLUMINATED SIGNAGE TO BE PAINTED BLACK, GLOSS FINISH. SIGN COMPANY TO PROVIDE AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION.

A4.04 SIGNAGE - HOURS SIGN: G.C. TO INSTALL, SIGN COMPANY TO PROVIDE, WHITE SENTRA SIGN FACE AND PLEX COVER, G.C. TO PAINT RED BACK BOARD. SEE ELEVATION FOR LOCATION.

A4.05 SIGNAGE - ADDRESS: G.C. TO PROVIDE AND INSTALL ADDRESS SIGNAGE, SEE EXTERIOR ELEVATION FOR LOCATION AND SIZES.

A4.06 SIGNAGE - DIAMOND MEDALLION: SIGN COMPANY TO PROVIDE AND INSTALL PAINTED METAL DIAMOND MEDALLION, SEE ELEVATIONS FOR LOCATION, RE: DIAMOND DETAILS FOR EXACT SIZES.

A4.07 AWNING: SIGN COMPANY TO INSTALL CORSICAN PURPLE WITH RED LOWER BAND AWNING ON ANGLED BLACK METAL FRAME. SEE ELEVATION DRAWINGS FOR AWNING SECTION. G.C. TO PROVIDE POWER FOR LIGHTS. SEE DETAIL 17/A7.2.

A4.08 TRASH ENCLOSURE - PAINT: PAINT TRASH ENCLOSURE "CANOE", SEE DRAWING A0.3.

A4.09 CANOPY LIGHTING: G.C. TO PROVIDE AND INSTALL 60-WATT, 6" DIA. RECESSED CANOPY DOWN LIGHT, SEE RCP FOR LOCATION. PROVIDE POWER AS REQUIRED.

A4.10 WALL SCONCE BOX LIGHT: G.C. TO PROVIDE AND INSTALL RECTANGULAR SCONCE BOX LIGHT. SEE ELEVATIONS FOR LOCATION.

A4.11 LED - POWER: G.C. TO PROVIDE "J"-BOX. MOUNT APPROXIMATELY 12" BACK FROM PARAPET ON ROOF IN APPROXIMATE INDICATED LOCATION. LED REQUIRES 20 AMP 120 VAC CIRCUIT.POWER L.E.D. THROUGH TIME CLOCK - SEE ELECT. DWGS.

A4.12 DIAMOND LIGHT: G.C. TO INSTALL AND PROVIDE POWER TO 15"SQ. DIAMOND WALL SCONCE LIGHT BY GARDCO LIGHTING (600 SERIES) AS SUPPLIED BY DEALERS ELECTRIC.

A4.13 REVEAL: "V" GROOVE REVEAL - SEE DETAIL 09/A7.2.

A4.14 JOINT: 1/2" CONTROL/SEALANT JOINT - SEE DETAIL 10/A7.2.

A4.15 COPING: 24 GAUGE GALV. SHEET METAL COPING CAP, PAINTED "AUGUST MOON" IN THE FIELD.

A4.16 WALL PAKS: G.C. TO INSTALL AND PROVIDE POWER TO WALL PAK LIGHT FIXTURES.

A4.17 DOWNSPOUTS: G.C. TO INSTALL 6"X6" PREFINISHED OR PAINTEDDOWNSPOUT W/CONDUCTOR HEAD FOR ROOF DRAINAGE. COLOR TO MATCH P-12 "SAND."

A4.18 DOOR BELL: PROVIDE DOOR BELL AT SERVICE DOOR FOR DELIVERIES AT 48" AFF. SEE ELECTRICAL DRAWINGS.

A4.19 ADA SIGNAGE: ADA SYMBOL APPLIED TO MAIN ENTRANCE DOOR.

A4.20 MASONRY CONTROL JOINT: TYPICAL MASONRY CONTROL JOINT W/ SEALANT. SEE DETAIL 16/A7.0

A4.21 EXISTING DOOR: TO BE WELDED SHUT.

A4.22 WALL PAK: NEW WALL PAK TO REMAIN.

GENERAL NOTES

1. SIGN COMPANY SHALL OBTAIN ALL REQUIRED SIGNAGE PERMITS PRIOR TO INSTALLATION OF NEW WORK AND REPAIRS.
2. PAINTED FEATURES: ALL DOWNSPOUTS, SCUPPERS, ELECTRICAL PANELS, GRILLES, CONDUIT AND PIPING, VISIBLE TO PUBLIC, SHALL BE PAINTED TO MATCH ADJACENT MATERIAL FINISH AND BANDING, U.N.O.
3. UNPAINTED ITEMS: DO NOT PAINT OVER SECURITY CAMERAS, SECURITY/FIRE ALARM BELLS AND ASSOCIATED PUMPS FIXTURES FITTINGS AND OTHER LIFE SAFETY FIXTURES. DO NOT PAINT OVER ELECTRICAL AND PLUMBING LABELS.
4. VEGETATION: ALL PLANTS, TREES, VEGETATION, GARDEN BEDS AND ASSOCIATED PATHWAYS TO BE PROTECTED FROM ANY PHYSICAL OR PAINT DAMAGE PRIOR TO PAINTING. PLANTS TO BE TRIMMED AND MAINTAINED PER INSTRUCTION FROM C.E.C. ENTERTAINMENT INC.

EXTERIOR ELEVATION LEGEND

P11 PAINT HOLLYBERRY RED
— RED L.E.D.
P12 PAINT SAND
P14 PAINT CANOE
EX EXISTING (LEAVE AS-IS)
P13 PAINT FLAT BLACK
P15 PAINT AUGUST MOON
E1 DRYVIT SYSTEM SAND BLAST TEXTURE - BUCKSKIN #449 BASE: PASTEL (SAND)
E2 DRYVIT SYSTEM: SAND BLAST TEXTURE - FRENCH TOAST #400 BASE: PASTEL (CANOE)

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcy.com

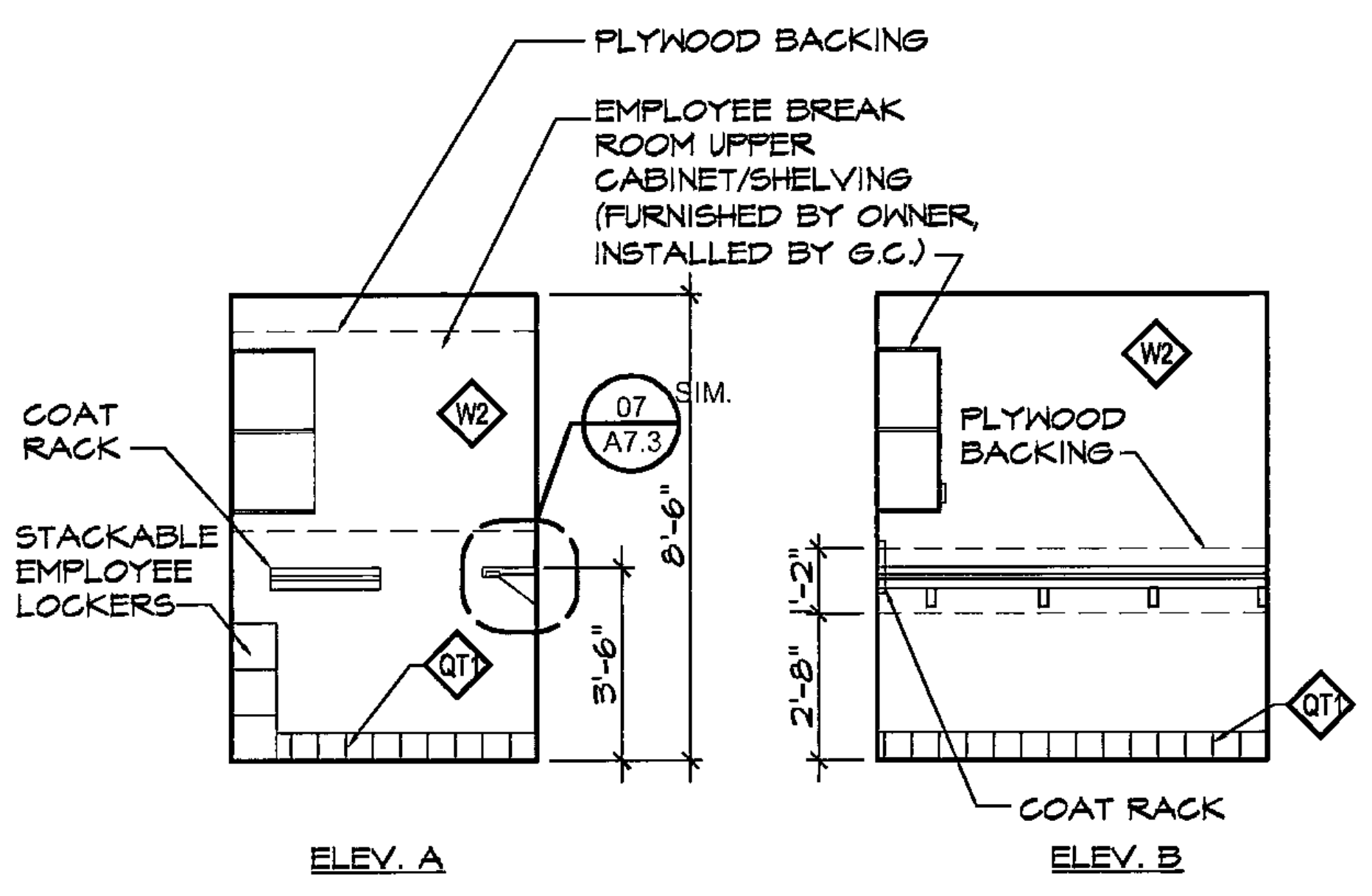
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

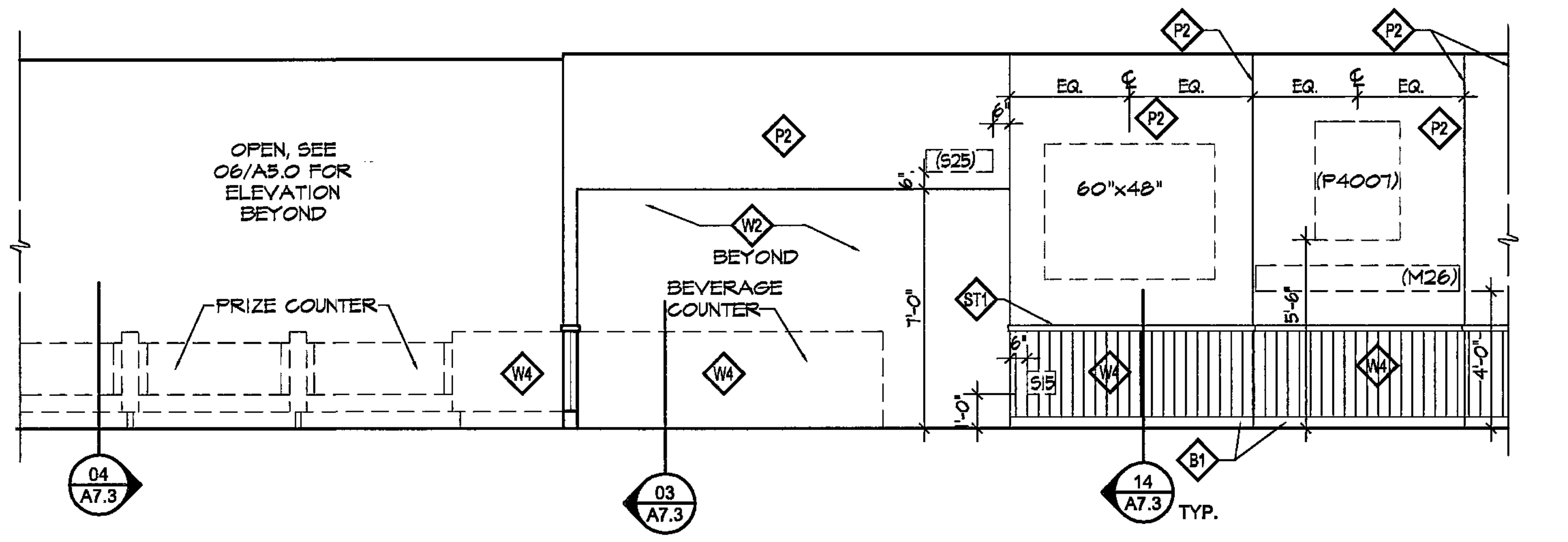
EXTERIOR ELEVATIONS

A4.0


PLYWOOD BACKING
EMPLOYEE BREAK ROOM UPPER CABINET/SHELVING (FURNISHED BY OWNER, INSTALLED BY G.C.)
COAT RACK
STACKABLE EMPLOYEE LOCKERS
W2
07 A7.3 SIM.
QT1
PLYWOOD BACKING
COAT RACK
ELEV. A
ELEV. B

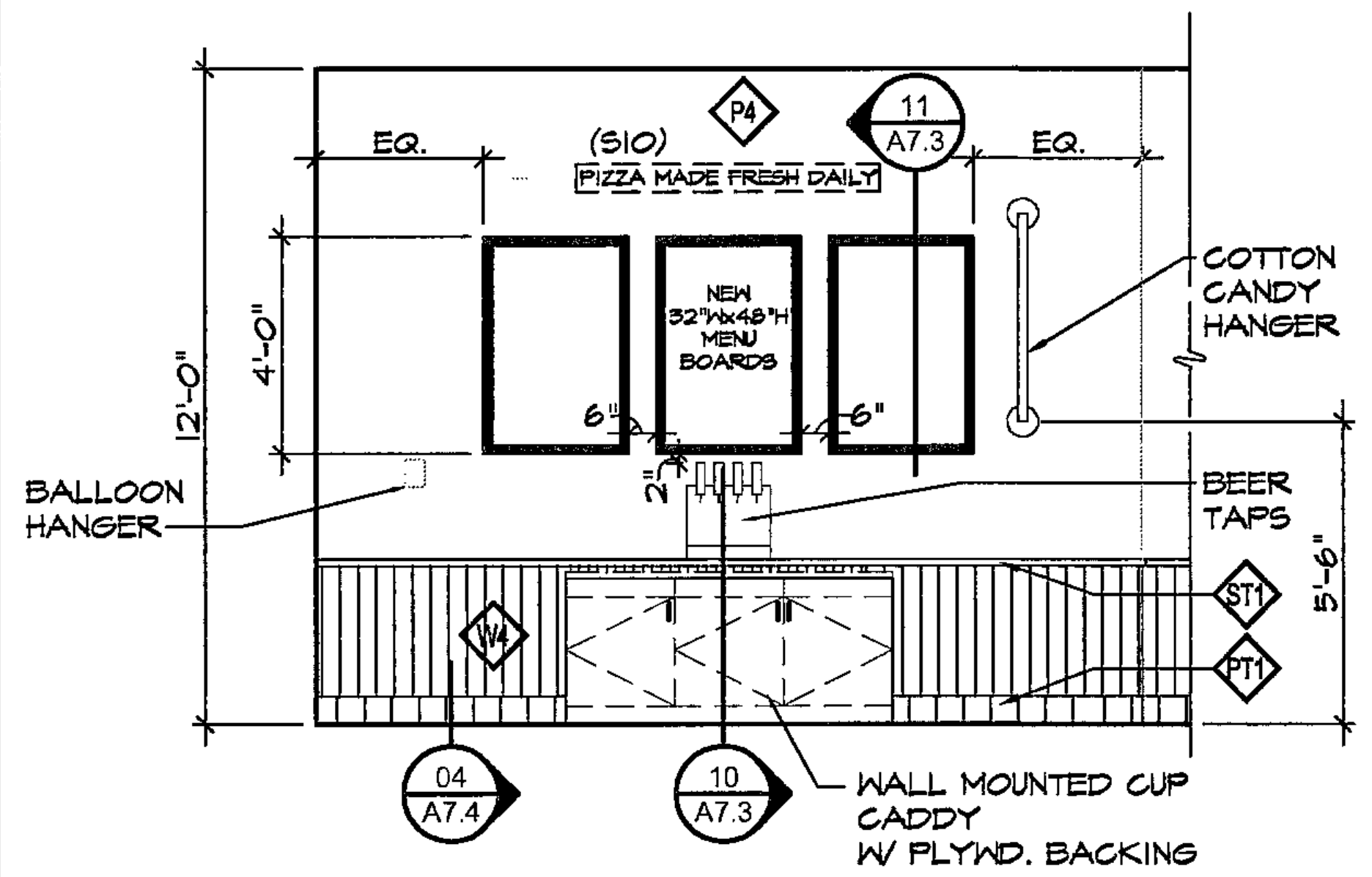
12 EMPLOYEE BREAK ROOM ELEVATIONS

SCALE: 1/4" = 1'-0"



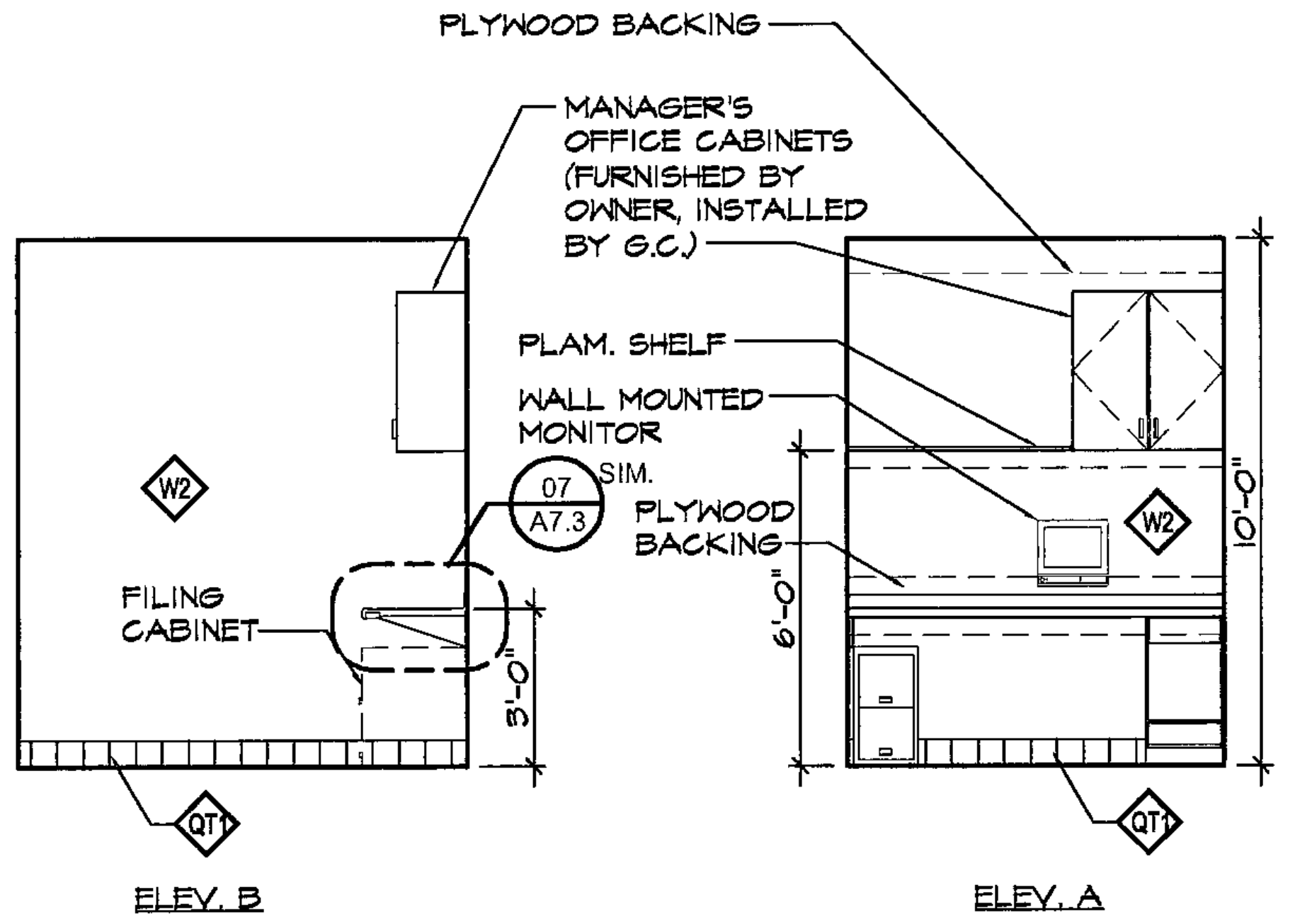
05 BEVERAGE & PRIZE COUNTER ELEVATION

SCALE: 1/4" = 1'-0"



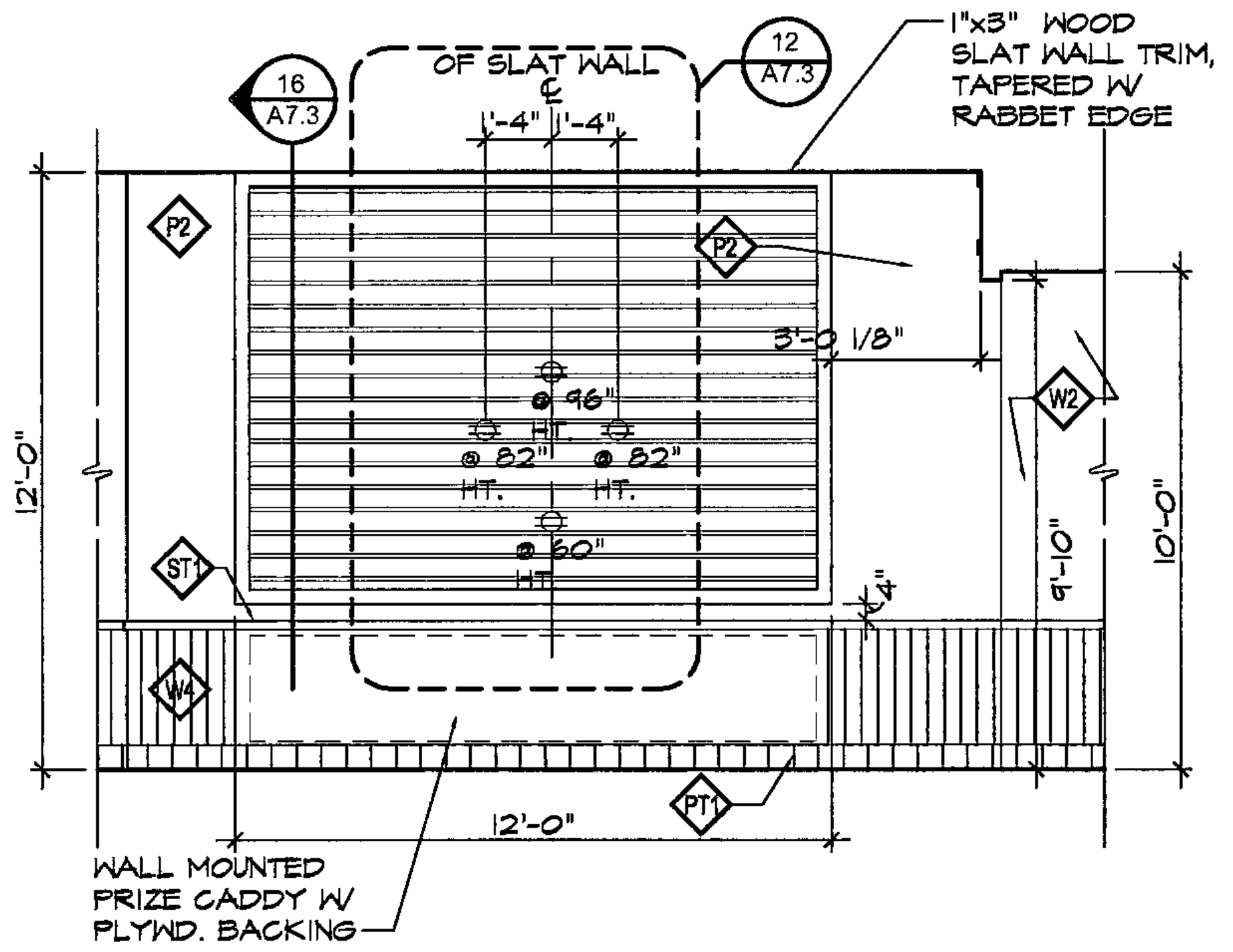
01 ORDER COUNTER ELEVATIONS

SCALE: 1/4" = 1'-0"



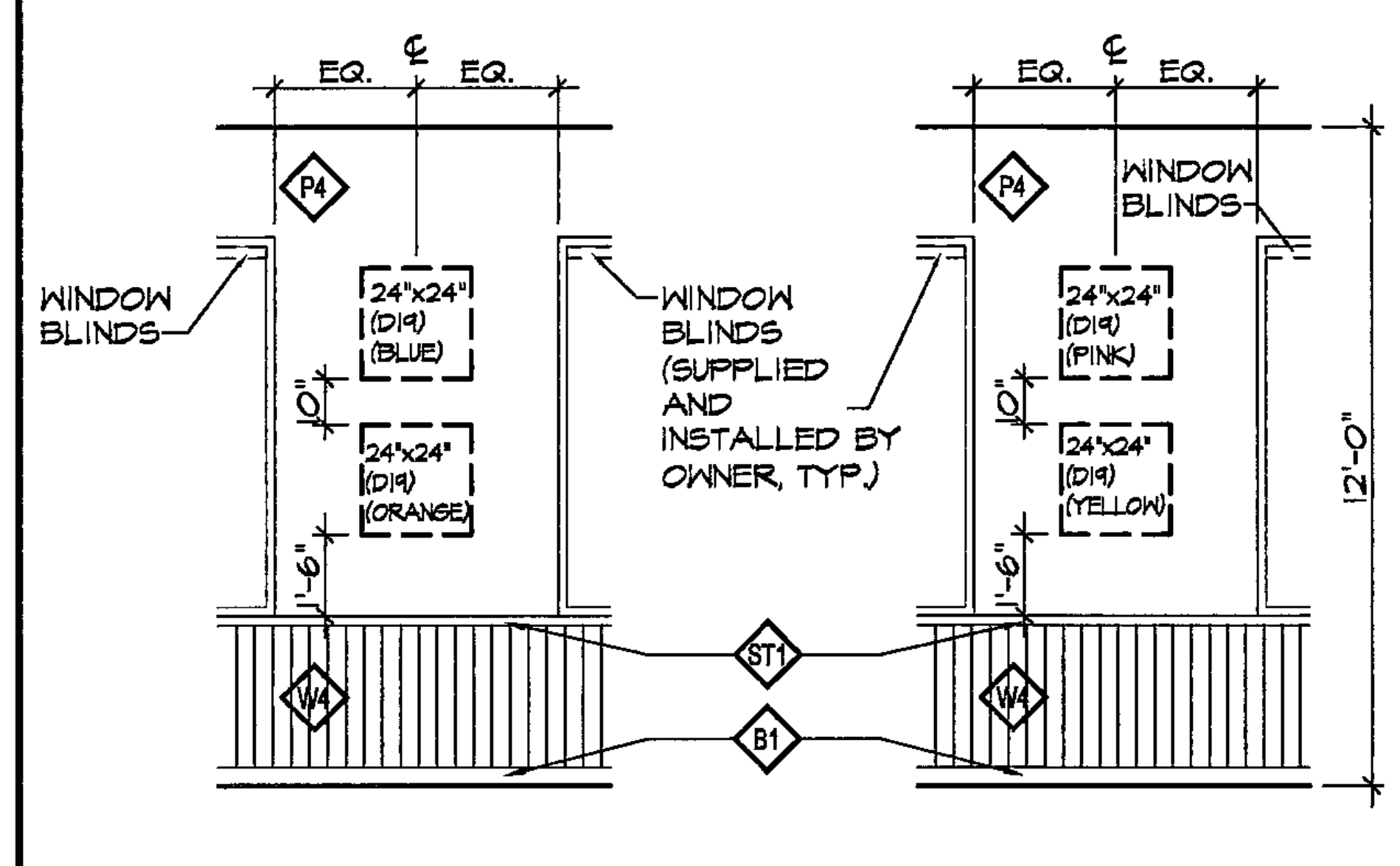
13 OFFICE ELEVATIONS

SCALE: 1/4" = 1'-0"


16 A7.3
OF SLAT WALL
12 A7.3
1"x3" WOOD SLAT WALL TRIM, TAPERED W/ RABBET EDGE
P2
W2
ST1
W4
@ 96"
@ 82" HT.
@ 60" HT.
12'-0"
PT1
WALL MOUNTED PRIZE CADDY W/ PLYWD. BACKING

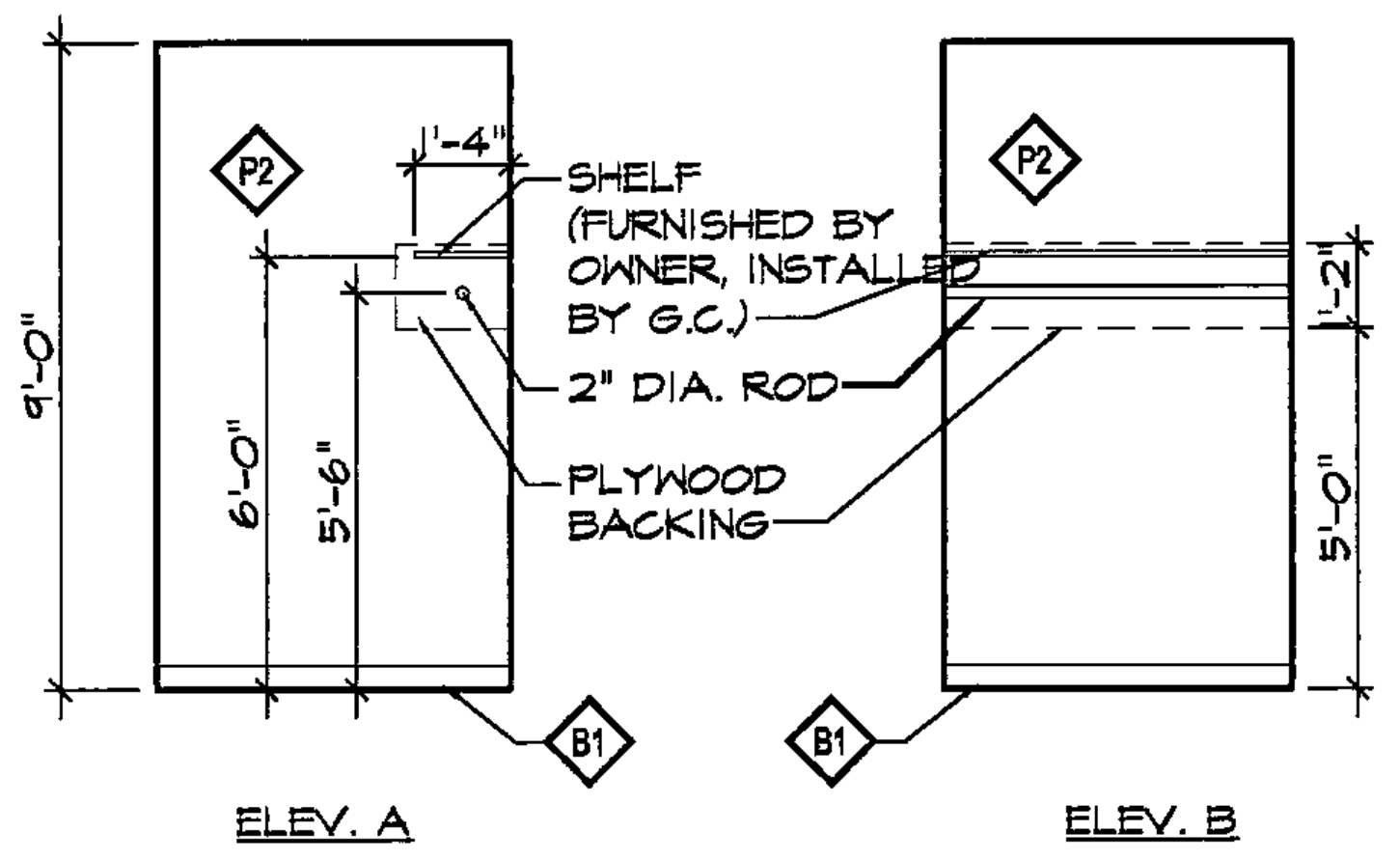
06 SLAT WALL ELEVATION

SCALE: 1/4" = 1'-0"



02 FRONT SKILLS WALL ELEVS.

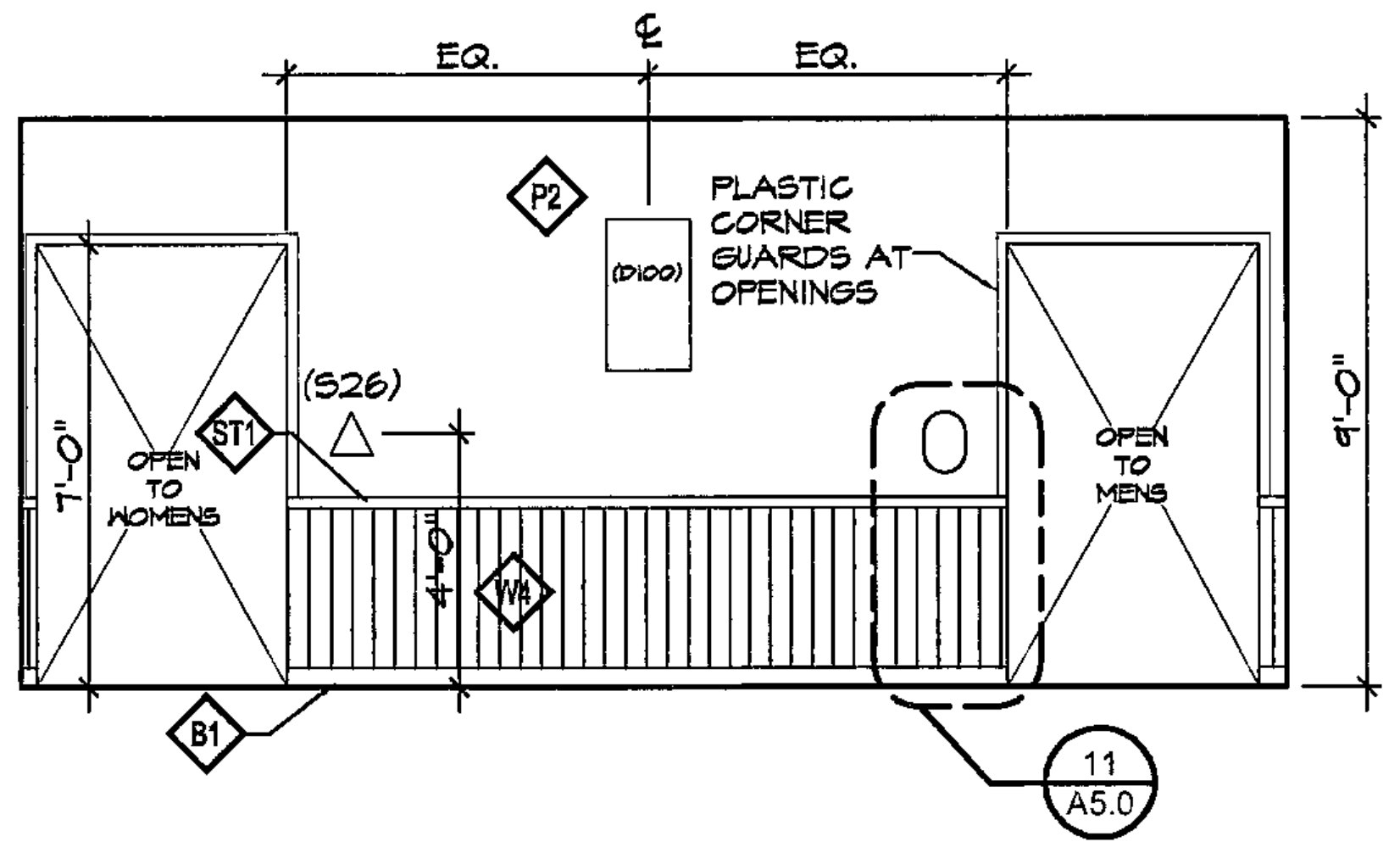
SCALE: 1/4" = 1'-0"



14 COSTUME ELEVATIONS

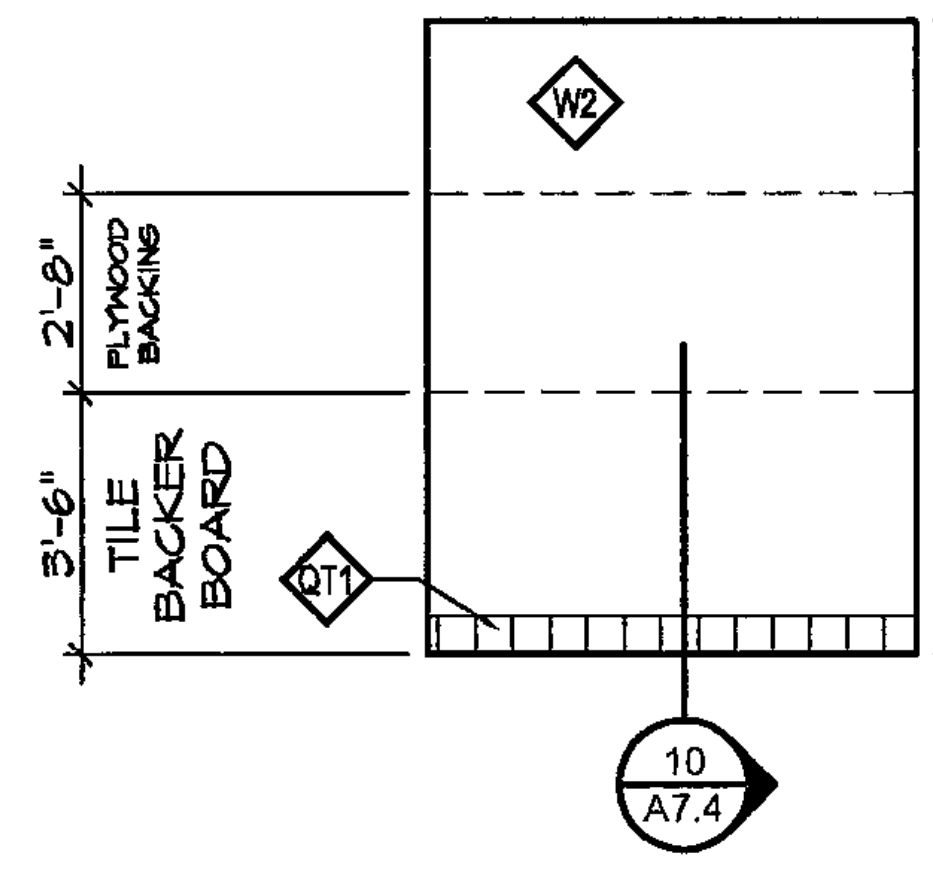
SCALE: 1/4" = 1'-0"

NOTE: COORDINATE EXACT ADA SIGNAGE LOCATIONS W/ LOCAL JURISDICTION



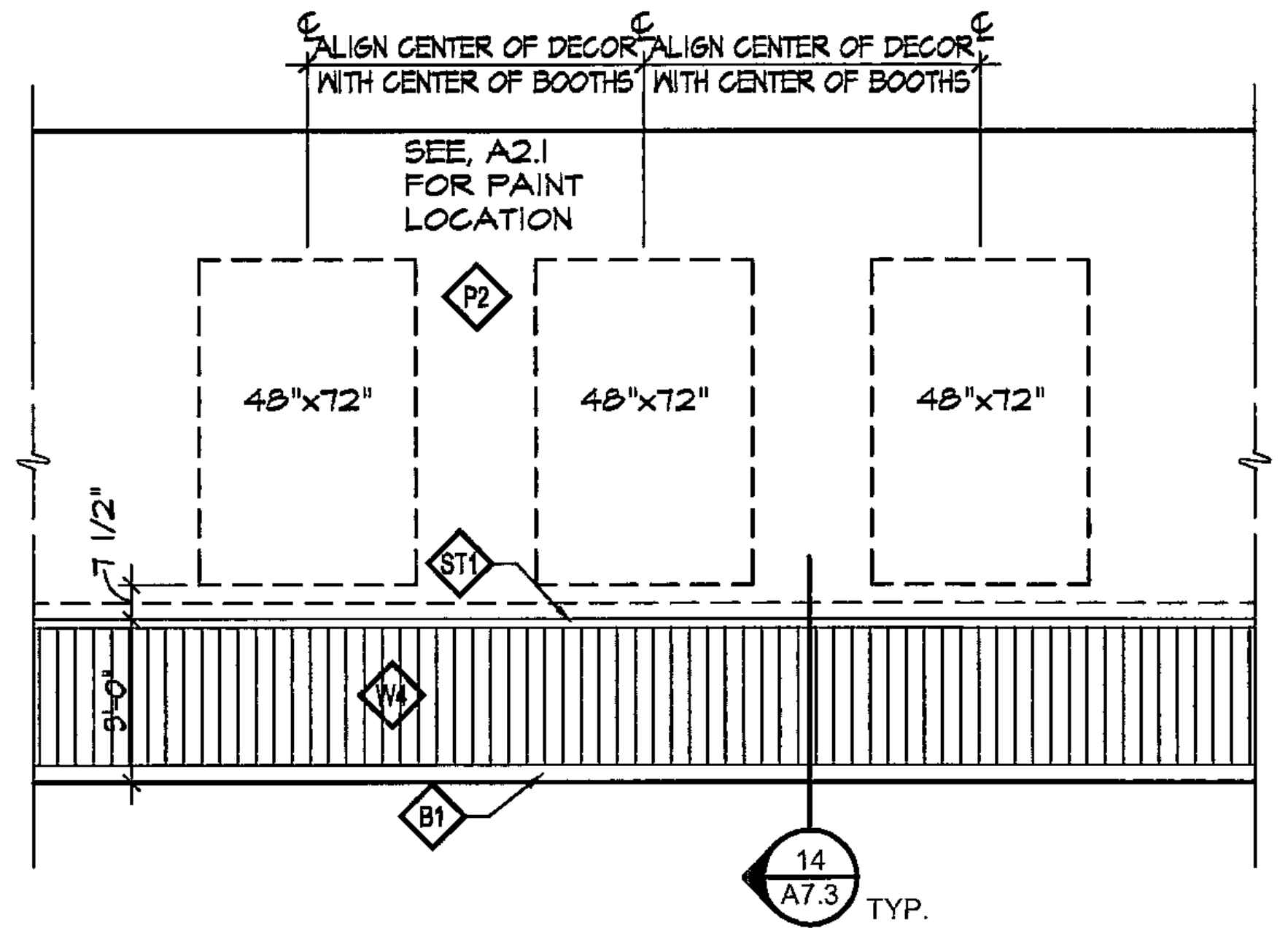
10 RESTROOM VESTIBULE ELEVATION

SCALE: 1/4" = 1'-0"



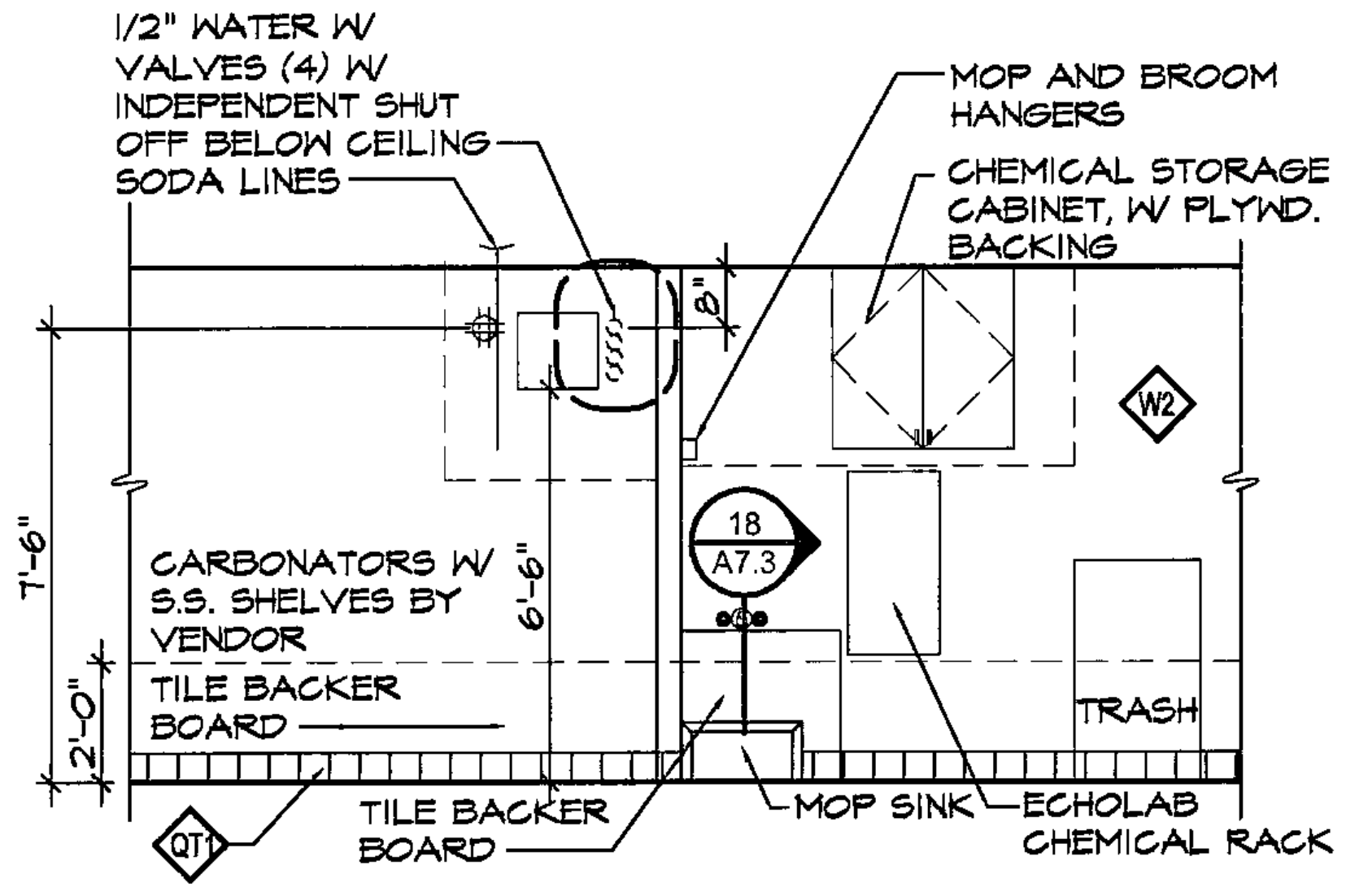
07 TYPICAL KITCHEN ELEVATION

SCALE: 1/4" = 1'-0"


ALIGN CENTER OF DECOR WITH CENTER OF BOOTHS
ALIGN CENTER OF DECOR WITH CENTER OF BOOTHS
SEE A2.1 FOR PAINT LOCATION
P2
48"x72"
ST1
W4
B1
14 A7.3 TYP.

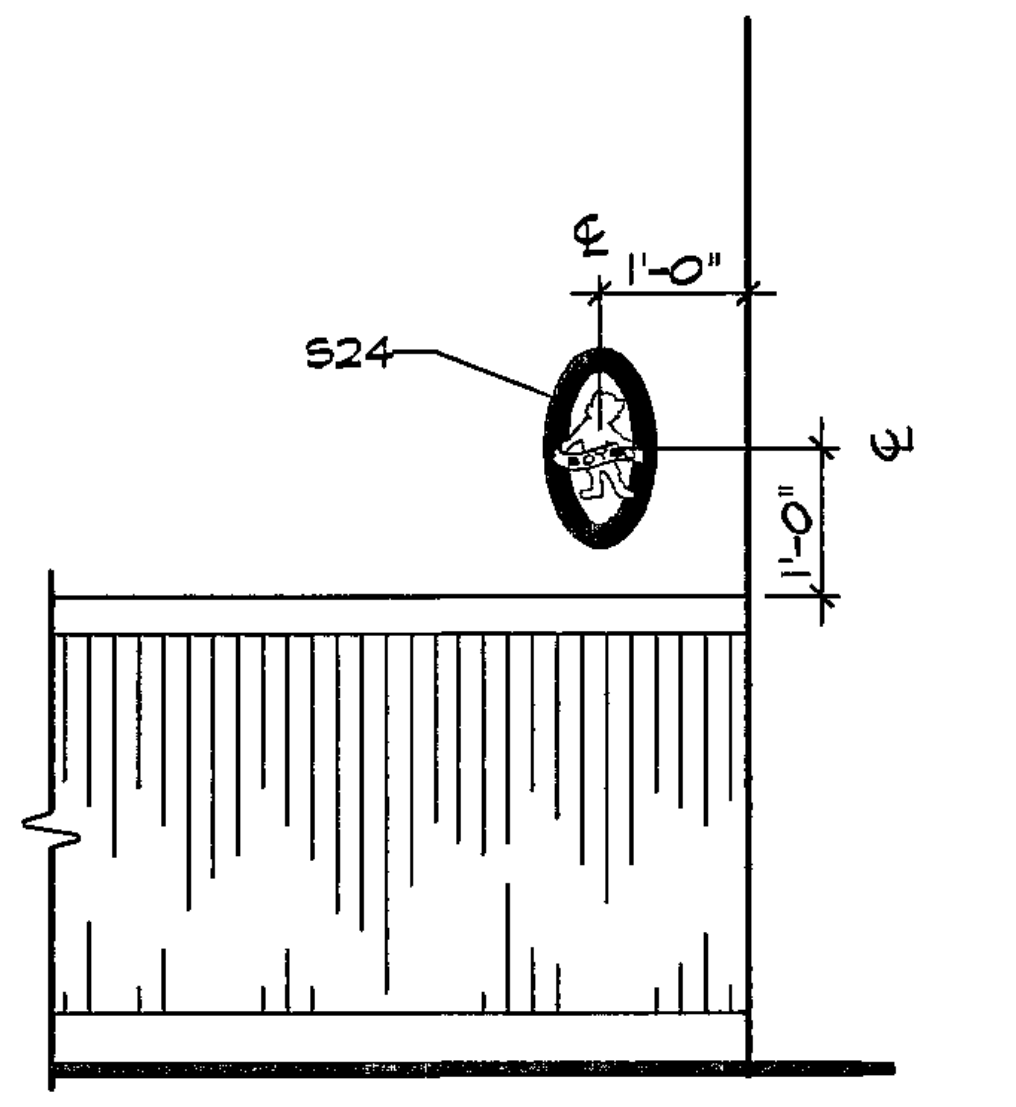
03 TYP. DECOR @ SHOWROOM ELEVS.

SCALE: 1/4" = 1'-0"


1/2" WATER W/ VALVES (4) W/ INDEPENDENT SHUT OFF BELOW CEILING SODA LINES
MOP AND BROOM HANGERS
CHEMICAL STORAGE CABINET, W/ PLYWD. BACKING
W2
18 A7.3
CARBONATORS W/ S.S. SHELVES BY VENDOR
TILE BACKER BOARD
TRASH
QT1
TILE BACKER BOARD
MOP SINK
ECHOLAB CHEMICAL RACK

15 MOP SINK\SODA LINE ELEVATION

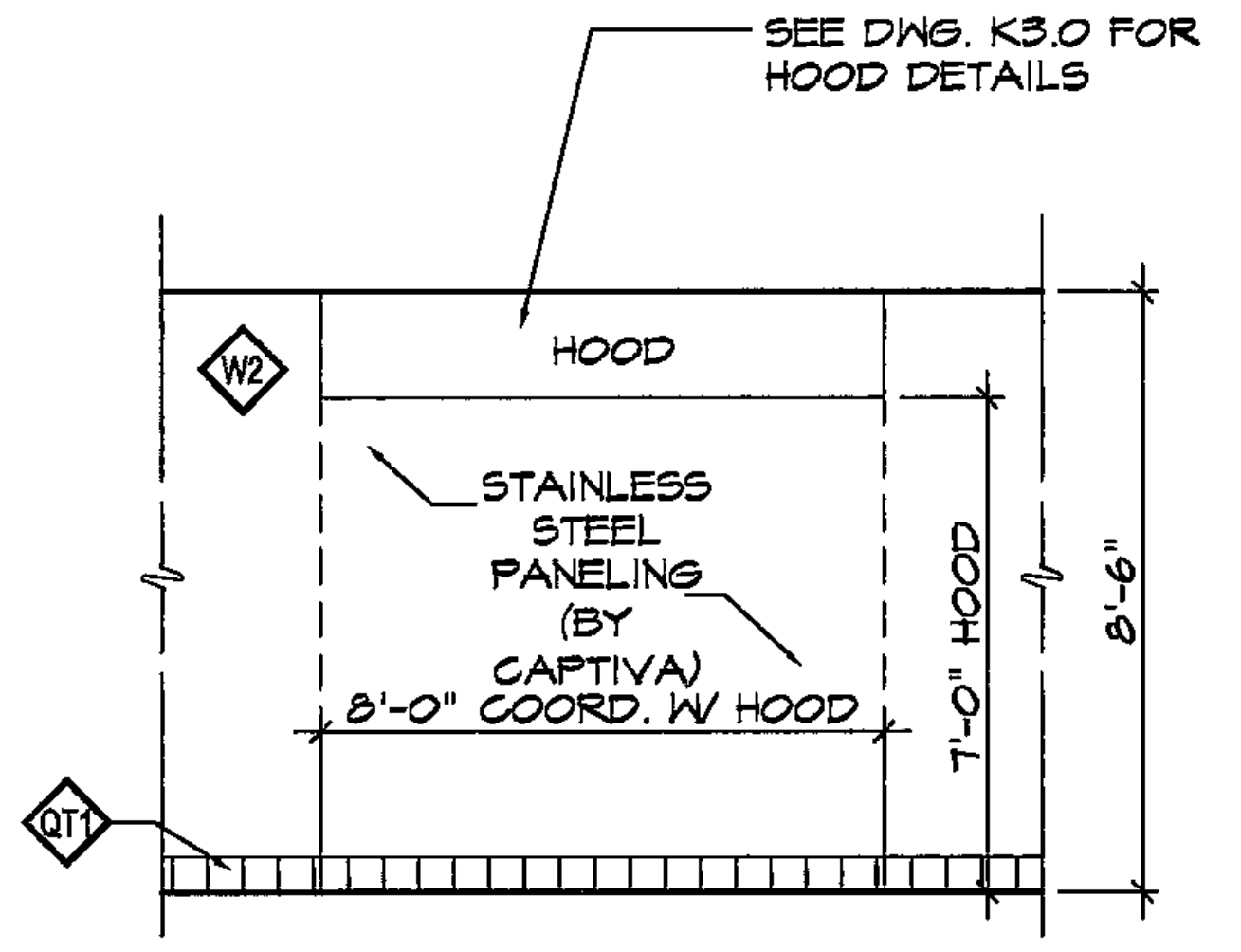
SCALE: 1/4" = 1'-0"



NOTE: CENTER RESTROOM MARQUEES ON HEADER, OVALS LOCATED PER DETAIL, WOMEN RESTROOM SIM.

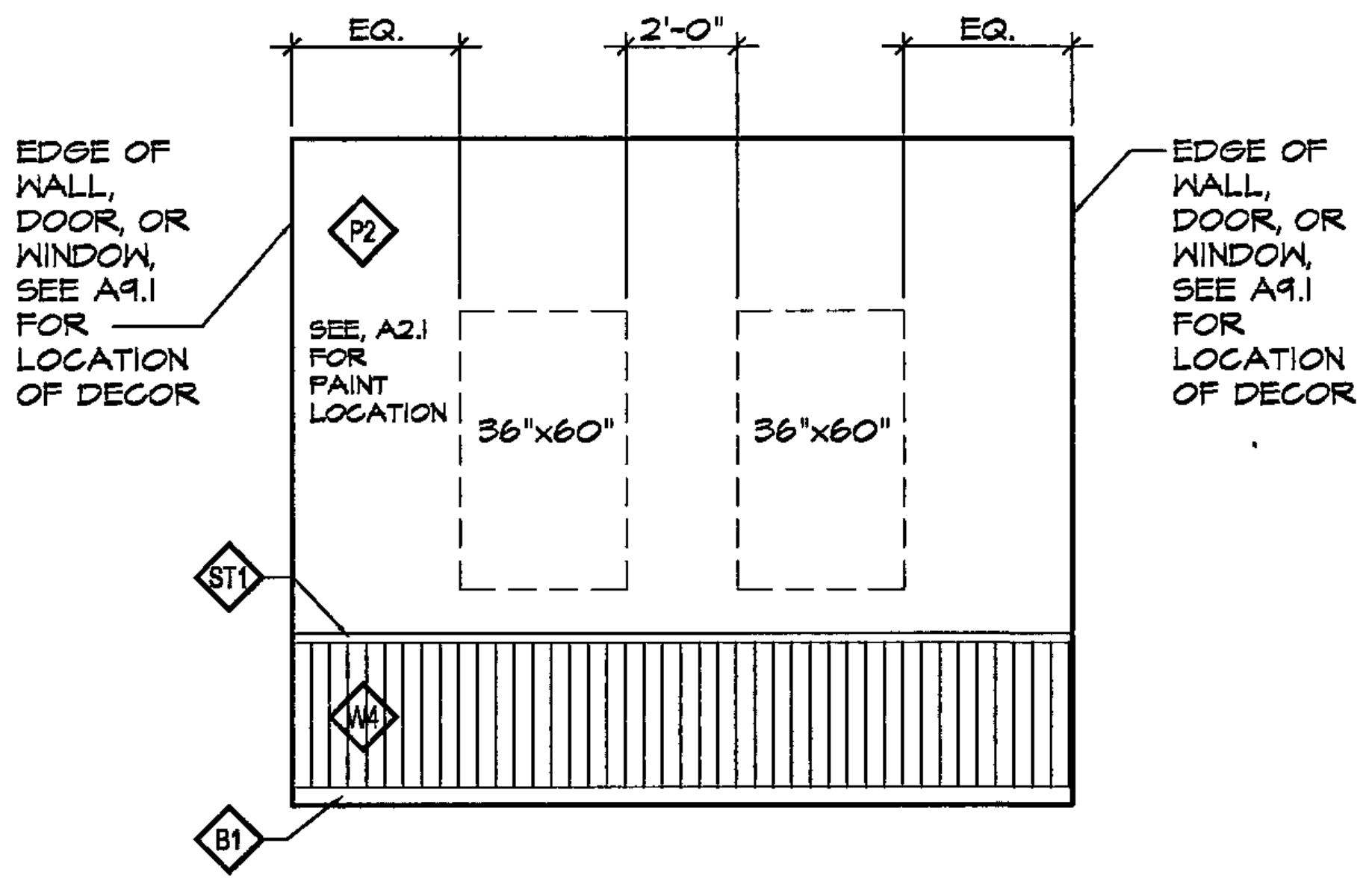
11 RESTROOM SIGNAGE ELEVATION

SCALE: N.T.S.


SEE DWG. K3.0 FOR HOOD DETAILS
W2
HOOD
STAINLESS STEEL PANELING (BY CAPTIVA)
8'-0" COORD. W/ HOOD
QT1

08 TYPICAL OVEN ELEVATION

SCALE: 1/4" = 1'-0"


EQ.
2'-0"
EDGE OF WALL, DOOR, OR WINDOW, SEE A9.1 FOR LOCATION OF DECOR
P2
SEE A2.1 FOR PAINT LOCATION
36"x60"
ST1
W4
B1

04 TYP. DECOR @ SKILLS ELEV.

SCALE: 1/4" = 1'-0"

WALL FINISH SPECIFICATIONS

1. PAINT FINISH: ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
2. PAINT SPECIFICATIONS: FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEC MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
3. ALL PRODUCTS LISTED: ARE AVAILABLE THRU SHERWIN WILLIAMS. NATIONAL ACCOUNT MANAGER, JOHN W GASTON (214-553-3940 - OFFICE) (CELL 214-728-6696) D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
4. P-1 HOLLYBERRY RED - USED ON EXPOSED METAL COLUMNS METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.
   METAL PAINT - CUSTOM FORMULA:
   BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING:
   844 COLORANTS - QV-40, QR-32, TW-16. THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES.
5. P-2 WHITE WOOL SW1354 - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY/APPROVAL)
   DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200.
   DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS)
   NOTE: ON FIRE EXIT DOORS AND FRAMES
   PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.)
6. P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
7. P-4 CORSICAN PURPLE SW1825 - FOR ACCENT GYPSUM WALL.
   DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200.
   DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL. (TWO COATS)
8. P-5 FLAT BLACK - USED ON INTERIOR BACK WALL OR ANIMATED SHOW PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
9. P-6 LATTE SW6108 - RESTROOM WALLS
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
10. P-7 CEILING EXTRA WHITE SW7006 - RESTROOM CEILING & SHELVING / KITCHEN DOORS / FRAMES
    PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
11. ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.) -
    1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S 64 SERIES (CHERRY)-S64R6WITH 4 OZ. #844 "RED OXIDE"
    2ND COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% - T67F3.
    3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER, T57C15 4TH COAT - SAME AS THIRD COAT.
12. W-2 F.R.P. PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
13. W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
14. W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"

WALL FINISH LEGEND

PORCELAIN FLOOR TILE

PT1 PT-1 TYPE:FLOOR TILE
SIZE: 12"x12"
TILES: CC19CEC-12x12 GRANTI ABR., CC19CCB-6x12 GRANITI, CC19IC-1x6 GRANITI
GROUT: MFGR. PBG1925 "PEWTER"

QUARRY FLOOR TILE

QT1 TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS)
SIZE: 6" x 6"
TILES: SUMMITVILLE SV100T-6X6 "RED"
BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565
GROUT: MFGR. PBG6025 "CHARCOAL"

RESILENT BASE

B1 4" HIGH COVE - BURKE #217 - CHARCOAL

PAINT / STAIN FINISHES

P1 HOLLYBERRY RED
P2 WHITE WOOL
P3 WINDSOR GRAY
P4 CORSICAN PURPLE
P5 FLAT BLACK
P6 LATTE
ST1 INTERIOR OAK - (CHERRY STAIN)

WALL FINISHES

W2 .09 THK EMBOSSED FIBERGLASS REINFORCED PANELS KEMLITE - FRP WHITE
W4 MORNING HAZE MARLITE (MARLITE 5446-S2 "MORNING HAZE")
W5 DISPLAY WALL - NO. 2764 "CRYSTAL GREY"

NOTE: SEE DRAWING A2.1 FOR INTERIOR ELEVATION REFERENCE LOCATIONS.

SEE DRAWING A9.0 FOR DECORATION AND SIGNAGE SCHEDULES.

REGISTRATION SEAL

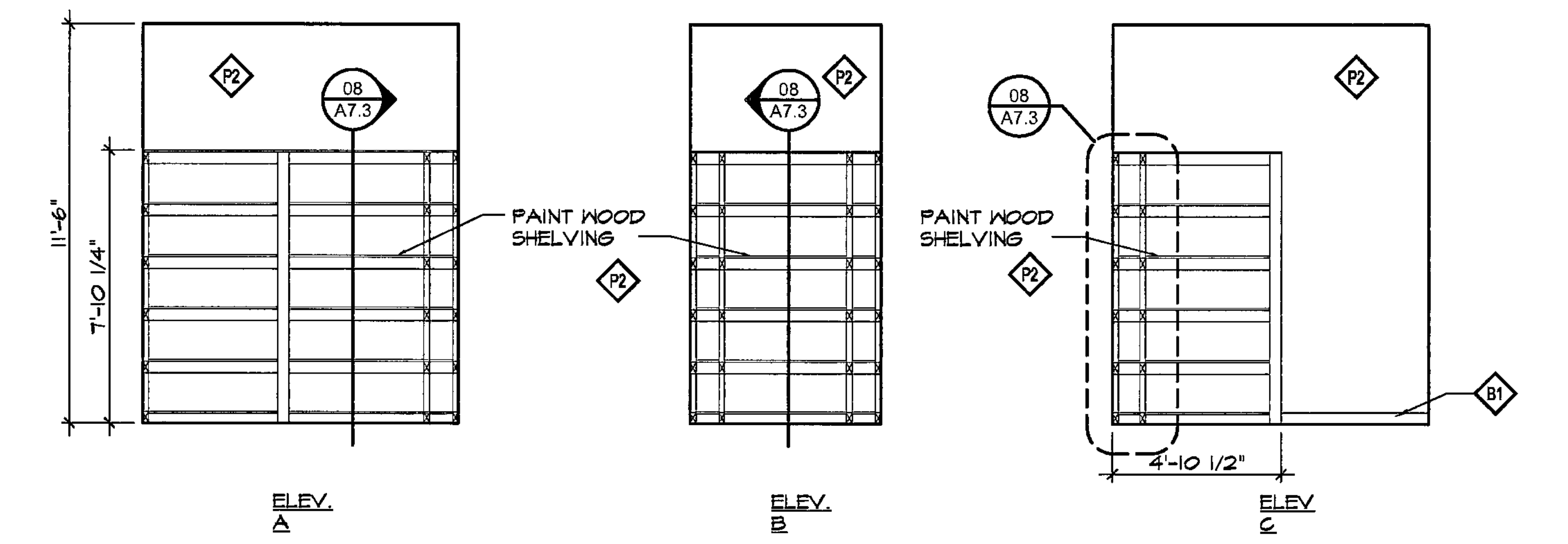
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

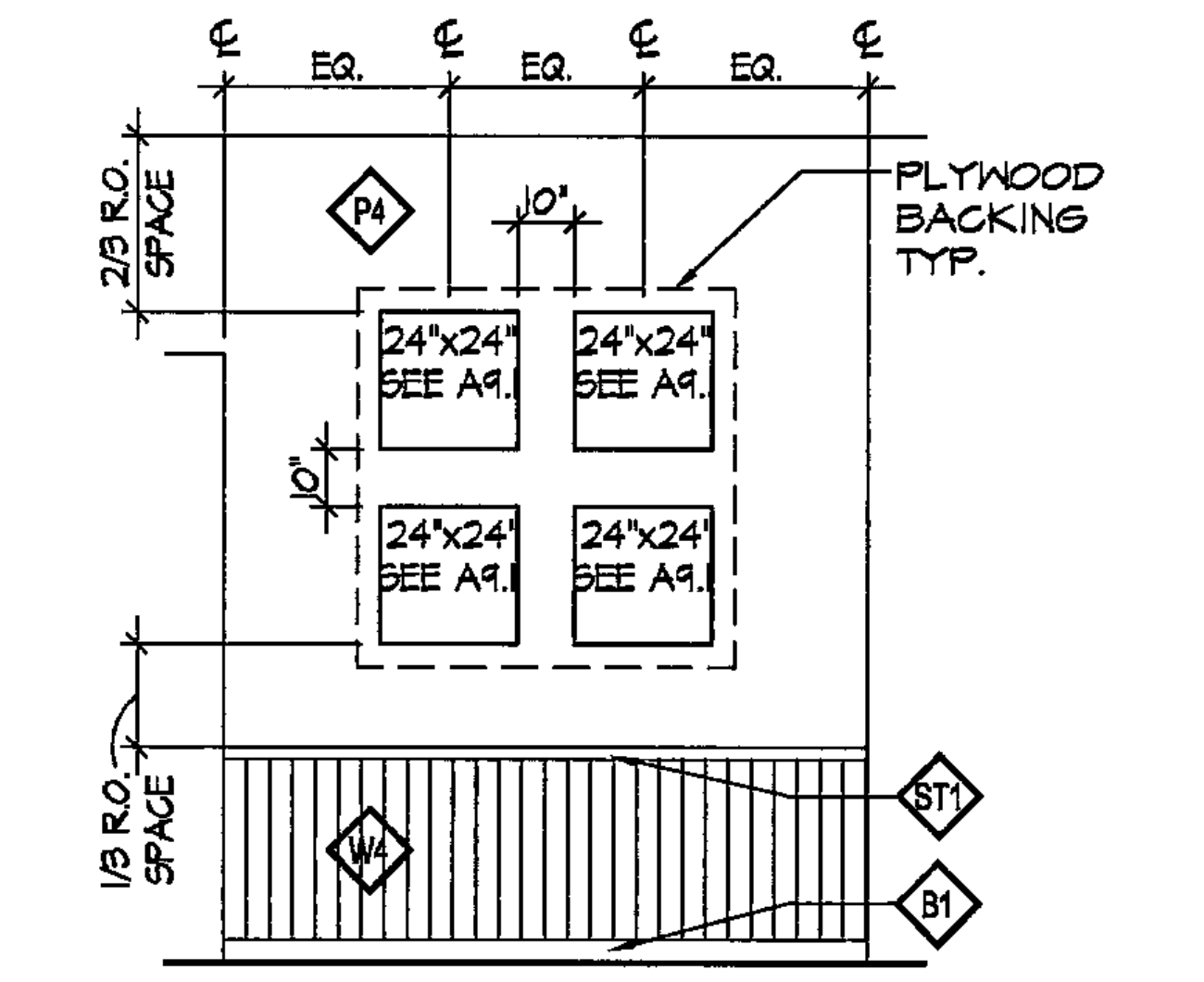
PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10
INTERIOR ELEVATIONS

A5.0



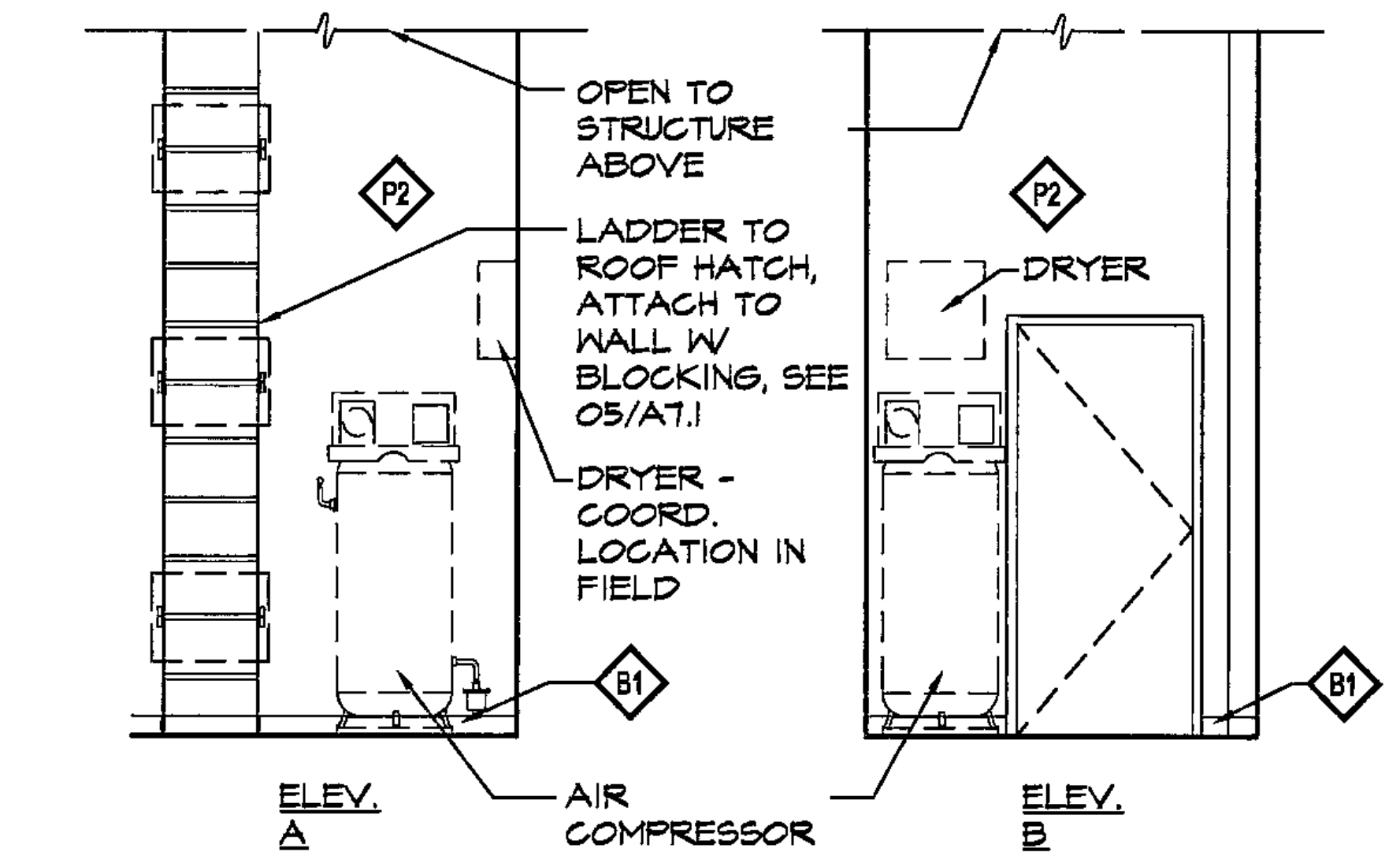
01 MERCHANDISE ELEVATIONS

SCALE: 1/4" = 1'-0"



05 WARHOL DECOR ELEVATION

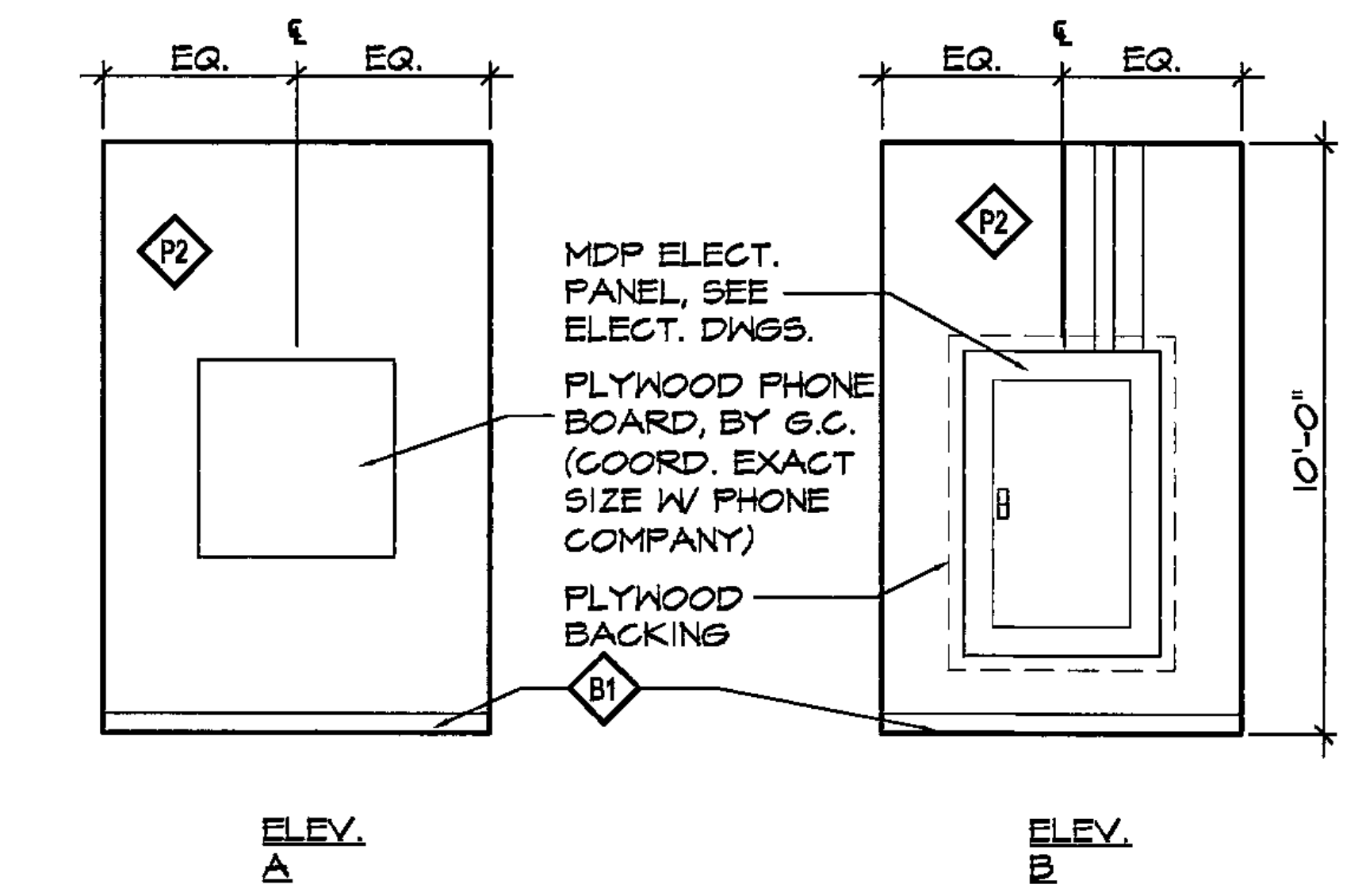
SCALE: 1/4" = 1'-0"



OPEN TO STRUCTURE ABOVE
P2
LADDER TO ROOF HATCH, ATTACH TO WALL W/ BLOCKING, SEE 05/A7.1
DRYER - COORD. LOCATION IN FIELD
DRYER
B1
AIR COMPRESSOR
ELEV. A
ELEV. B

02 UTILITY ROOM ELEVATIONS

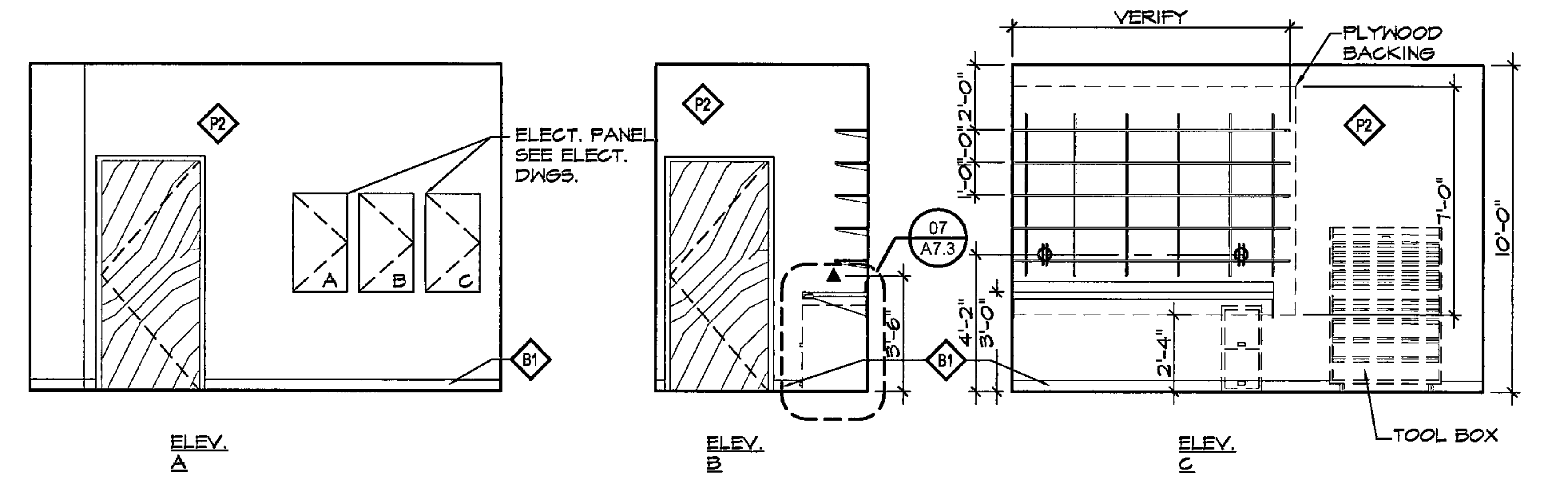
SCALE: 1/4" = 1'-0"



EQ.
℄
P2
MDP ELECT. PANEL, SEE ELECT. DWGS.
PLYWOOD PHONE BOARD, BY G.C. (COORD. EXACT SIZE W/ PHONE COMPANY)
PLYWOOD BACKING
B1
10'-0"
ELEV. A
ELEV. B

03 ELECTRICAL ROOM ELEVATIONS

SCALE: 1/4" = 1'-0"



04 TECH ROOM ELEVATIONS

SCALE: 1/4" = 1'-0"

WALL FINISH SPECIFICATIONS

1. PAINT FINISH: ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
2. PAINT SPECIFICATIONS: FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEC MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
3. ALL PRODUCTS LISTED: ARE AVAILABLE THRU SHERWIN WILLIAMS. NATIONAL ACCOUNT MANAGER, JOHN W GASTON (214-553-3940 - OFFICE) (CELL 214-728-6696) D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
4. P-1 HOLLYBERRY RED - USED ON EXPOSED METAL COLUMNS METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.
   METAL PAINT - CUSTOM FORMULA:
   BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING:
   844 COLORANTS - QV-40, QR-32, TW-16. THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES.
5. P-2 WHITE WOOL SW1354 - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY/APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS)
   NOTE: ON FIRE EXIT DOORS AND FRAMES
   PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.)
6. P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
7. P-4 CORSICAN PURPLE SW1825 - FOR ACCENT GYPSUM WALL. DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL. (TWO COATS)
8. P-5 FLAT BLACK - USED ON INTERIOR BACK WALL OR ANIMATED SHOW PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
9. P-6 LATTE SW6108 - RESTROOM WALLS
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
10. P-7 CEILING EXTRA WHITE SW7006 - RESTROOM CEILING & SHELVING / KITCHEN DOORS / FRAMES
    PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
11. ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.) -
    1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S 64 SERIES (CHERRY)-S64R6WITH 4 OZ. #844 "RED OXIDE"
    2ND COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% - T67F3.
    3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER, T57C15
    4TH COAT - SAME AS THIRD COAT.
12. W-2 F.R.P. PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
13. W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
14. W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"

WALL FINISH LEGEND

PORCELAIN FLOOR TILE

PT1	PT-1 TYPE:FLOOR TILE SIZE: 12"x12" TILES: CC19CEC-12x12 GRANTI ABR., CC19CCB-6x12 GRANITI, CC191C-1x6 GRANITI GROUT: MFGR. PBG1925 "PEWTER"

QUARRY FLOOR TILE

QT1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"

RESILENT BASE

B1	4" HIGH COVE - BURKE #217 - CHARCOAL

PAINT / STAIN FINISHES

P1	HOLLYBERRY RED
P2	WHITE WOOL
P3	WINDSOR GRAY
P4	CORSICAN PURPLE
P5	FLAT BLACK
P6	LATTE
ST1	INTERIOR OAK - (CHERRY STAIN)

WALL FINISHES

W2	.09 THK EMBOSSED FIBERGLASS REINFORCED PANELS KEMLITE - FRP WHITE
W4	MORNING HAZE MARLITE (MARLITE 5446-S2 "MORNING HAZE")
W5	DISPLAY WALL - NO. 2764 "CRYSTAL GREY"

NOTE: SEE DRAWING A2.1 & A9.1 FOR INTERIOR ELEVATION REFERENCE LOCATIONS.

SEE DRAWING A9.1 FOR DECORATION AND SIGNAGE SCHEDULES.

G.C. TO COORDINATE EXACT LOCATION OF PLYWOOD BACKING WITH OWNER PRIOR TO INSTALLATION.

REGISTRATION SEAL

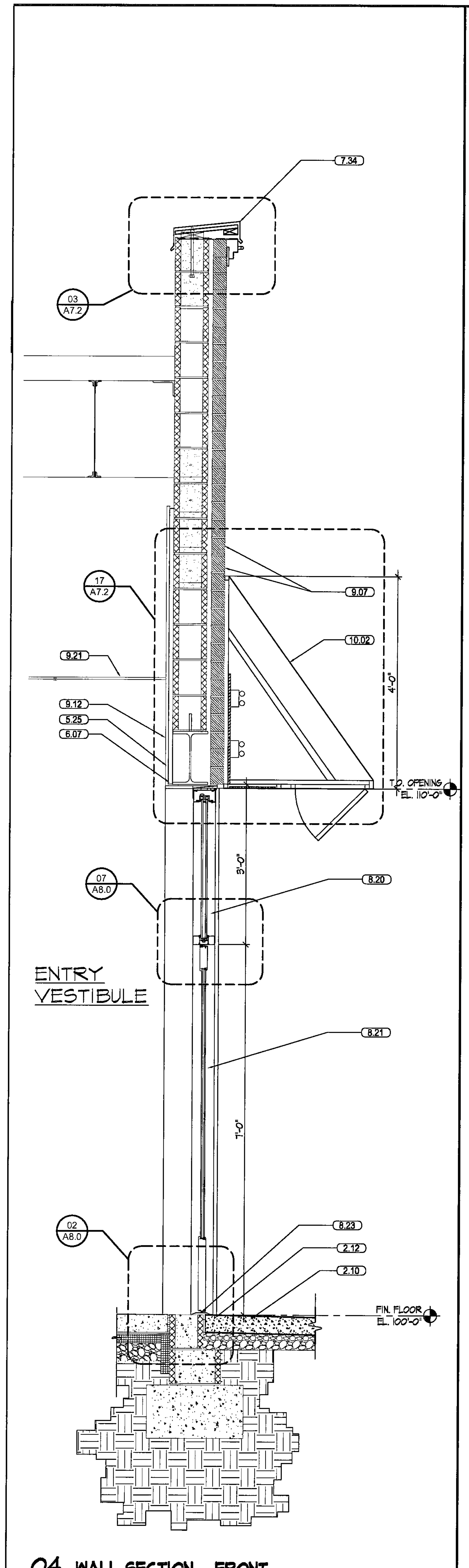
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

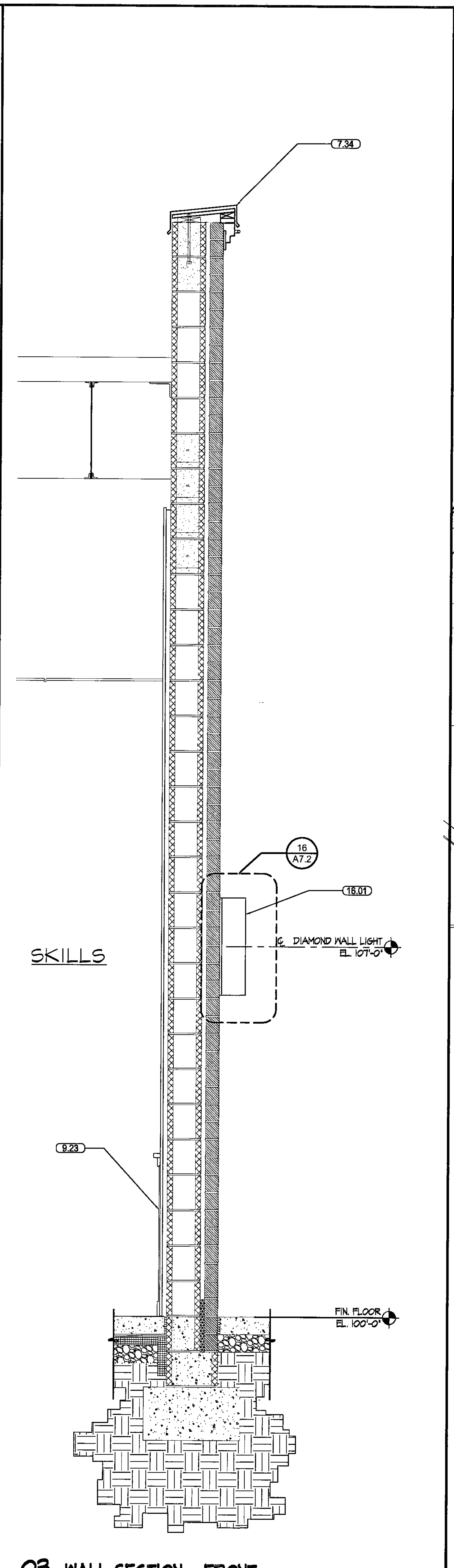
PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10
INTERIOR ELEVATIONS

A5.1



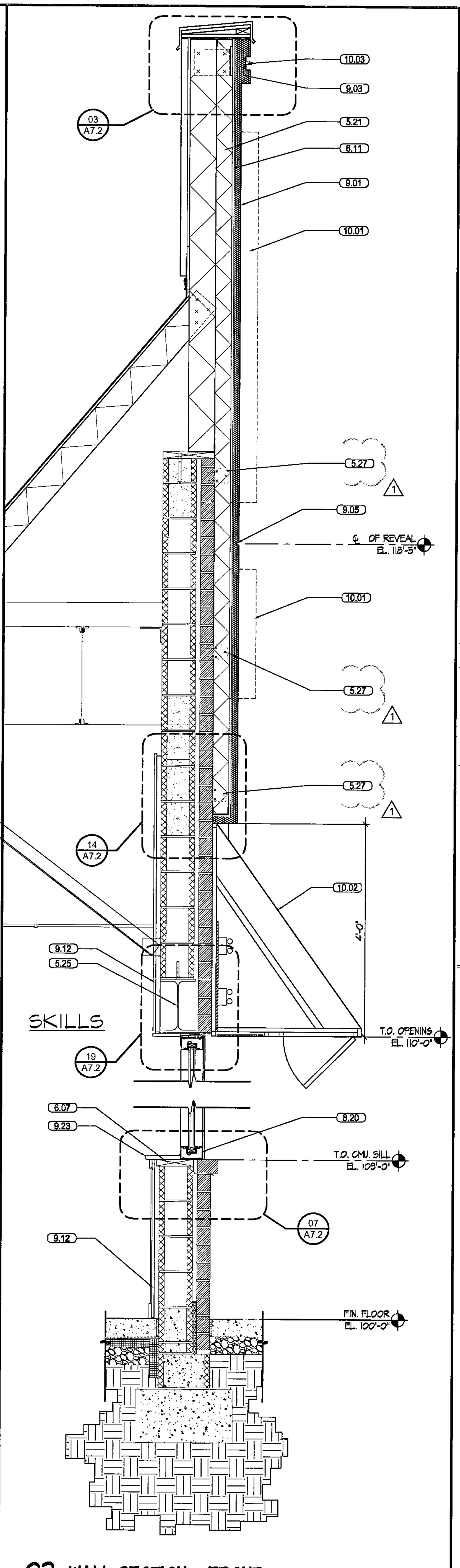
04 WALL SECTION - FRONT

SCALE: 3/4" = 1'-0"



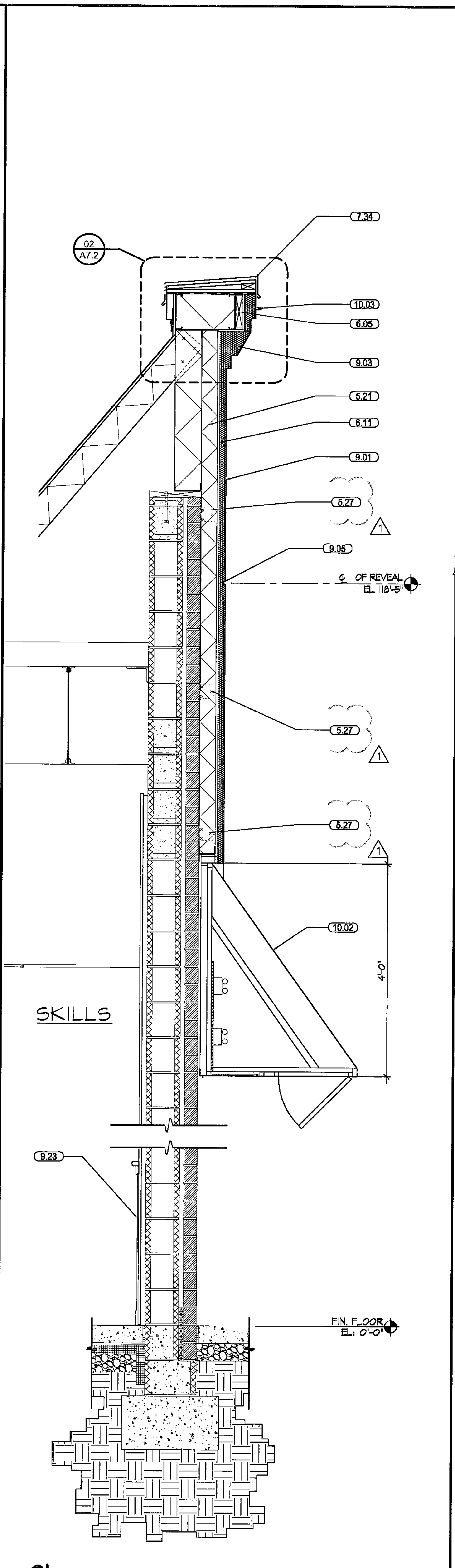
03 WALL SECTION - FRONT

SCALE: 3/4" = 1'-0"



02 WALL SECTION - FRONT

SCALE: 3/4" = 1'-0"



01 WALL SECTION - FRONT

SCALE: 3/4" = 1'-0"

SECTION KEYNOTES

(####)

02 - SITE IMPROVEMENTS

2.01	RECOMPACTED FILL UNDER CONCRETE SLAB - SEE SOIL'S REPORT.
2.02	COMPACTED BACKFILL UNDER PAVING - SEE SOIL'S REPORT.
2.03	FINISHED GRADE SEE CIVIL PLANS.
2.10	CONCRETE PAVING, SLOPE AWAY FROM BUILDING ?A PER 1'-0A - SEE SITE PLAN
2.11	ASPHALT PAVING - SEE CIVIL DWGS. AND SPECIFICATIONS
2.12	?A WIDE EXPANSION JOINT FILLER, HOLD 1A BELOW SIDEWALK AND SEAL.
2.13	LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS.

03 CONCRETE

3.01	?A EXPANSION JOINT FILLER, HOLD DOWN ?A BELOW T.O. SLAB.
3.02	CONTINUOUS DRIP ALONG EDGE.
3.10	CAST-IN-PLACE CONCRETE FOUNDATION WALL - SEE STRUCT. DWGS.
3.11	4A CAST-IN-PLACE CONCRETE SLAB-ON-GRADE ON 2" OF SAND, 6 MIL V.B. & 4" OF POROUS FILL - SEE STRUCT. DWGS. AND SPECS.
3.12	HAUNCHED CONCRETE SLAB @ DOORS - SEE STRUCT. DWGS.
3.20	PRECAST CONCRETE SPLASHBLOCK - SEE SPECS.

04 - MASONRY

4.01	FILL VOID SOLID W/ GROUT.
4.02	MASONRY BASE FLASHING W/ WEEP HOLES @ 32A O.C.
4.03	MASONRY WALL TIES @ 16" O.C. HORIZONTAL & VERTICALLY.
4.10	(P) 4A W. x 8" H. x 16" L. SPLIT-FACE CMU VENEER (APPLY BLOCK SEALER PRIOR TO PAINTING)
4.11	4"H. x 8"W. x 16" L. SPLIT-FACE CMU SILL, SLOPE TO DRAIN (APPLY BLOCK SEALER PRIOR TO PAINTING)
4.12	4"H. x 8"W. x 16" L. SMOOTH-FACE CMU SOLID BLOCK SOLDIER COURSE (APPLY BLOCK SEALER PRIOR TO PAINTING)

05 - METALS

5.01	STEEL TUBE COLUMN - SEE STRUCT. DWGS.
5.02	STEEL BEAM - SEE STRUCT. DWGS.
5.03	STEEL CHANNEL - SEE STRUCT. DWGS.
5.04	STEEL TUBE FRAMING - SEE STRUCT. DWGS.
5.10	STEEL JOIST FRAMING - SEE STRUCT. DWGS.
5.12	STEEL ROOF DECK - SEE STRUCT. DWGS.
5.13	STEEL EDGE ANGLE - SEE STRUCT. DWGS.
5.14	STEEL KICKER - SEE STRUCT. DWGS.
5.15	STEEL LINTEL, PAINTED - SEE STRUCT. DWGS.
5.20	1 1/2A, 20 GA. EXTERIOR METAL STUD FRAMING @ 16A O.C.
5.21	5 5/8A, 16 GA. EXTERIOR METAL STUD FRAMING @ 16A O.C.
5.22	6A, 16 GA. EXTERIOR METAL STUD FRAMING @ 16A O.C. (20GA. @ STUD BUMPOUTS)
5.23	8A 16 GA. EXTERIOR METAL STUD FRAMING @ 16A O.C.
5.24	STEEL STUD KICKER @ 4'-0" O.C.
5.25	NEW STEEL I-BEAM LINTEL - SEE STRUCT. DWGS.
5.26	STEEL STUD HORIZONTAL BRACING @ 4'-0" O.C.
5.27	18GA LIGHT GAGE CLIP ANGLE AT EA. STUD W/ (3)-3/16" TAPCONS W/ 1 3/4 EMBED INTO MASONRY.

1

06 - WOOD

6.01	2X4 WOOD BLOCKING.
6.02	2X6 WOOD BLOCKING.
6.03	2X4 TREATED WOOD BLOCKING.
6.04	2X6 TREATED WOOD BLOCKING.
6.05	2X TREATED WOOD BLOCKING.
6.06	2X TREATED WOOD FRAMING.
6.07	2X TREATED WOOD NAILER.
6.10	1/2" EXTERIOR GRADE PLYWOOD SHEATHING.
6.11	1/2A EXTERIOR GRADE GYPSUM SHEATHING. (DENSGLASS)

07 - THERMAL AND MOISTURE PROTECTION

7.01	CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS
7.02	R-13 BATT INSULATION - SEE SPECS.
7.03	R-19 BATT INSULATION - SEE SPECS.
7.05	2A RIGID PERIMETER INSULATION BOARD - SEE SPECS. (WHEN REQUIRED)
7.06	FILL VOID WITH BATT INSULATION, TYPICAL.
7.20	60 MIL TPO FULLY ADHERED MEMBRANE ROOFING SYSTEM - SEE SPECS.
7.21	3.5A, R-20 AGED RIGID ROOFING INSULATION - SEE SPECS. (REVIEW FOR EACH PROJECT)
7.22	FORM CRICKETS W/ TAPERED INSULATION.
7.23	45 MIL (WHITE) TPO FULLY ADHERED MEMBRANE FLASHING - EXTEND UP PARAPET WALL & UNDER COPING CAP.
7.24	ROOFING TERMINATION & FLASHING, SEE DETAIL 13/A7.1
7.25	PREMANUFACTURED ROOF CURB. UNDER ROOF TOP EQUIPMENT.
7.26	2'-6A X 3'-0A ROOF HATCH W/ STEEL LADDER.
7.30	GALVANIZED SHEET METAL FLASHING.
7.31	GALVANIZED SHEET METAL COUNTERFLASHING.
7.32	PREFINISHED OR PAINTED SHEET METAL FLASHING.
7.33	PREFINISHED OR PAINTED SHEET METAL COUNTERFLASHING.
7.34	GALV. SHEET METAL COPING CAP, PAINT IN FIELD AS SPECIFIED, SHEET A4.0
7.35	PREFINISHED OR PAINTED SHEET METAL DOWNSPOUT SYSTEM.
7.36	PREFINISHED OR PAINTED SHEET METAL CONDUCTOR HEAD.
7.37	GALVANIZED SHEET METAL SCUPPER - SEE 12/A2.4
7.40	SEALANT & BACKER ROD, TYPICAL.
7.41	SEALANT & BACKER ROD ON BOTH SIDES, TYPICAL.
7.42	CONTINUOUS SEALANT, TYPICAL.

08 - OPENINGS

8.01	HOLLOW METAL DOOR, PAINTED.
8.02	HOLLOW METAL FRAME, PAINTED.
8.20	ANODIZED BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1A INSULATED GLASS.
8.21	ANODIZED ALUMINUM STOREFRONT ENTRANCE DOOR (KYNAR FINISH TO MATCH HOLLYBERRY RED) - SEE SPECIFICATIONS.
8.22	PREFINISHED ALUMINUM PANEL TO MATCH STOREFRONT SYSTEM.
8.23	ALUMINUM THRESHOLD - SET IN BED OF SEALANT.

09 - FINISHES

9.01	E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD. (TYPICAL)
9.02	E.I.F.S. SYSTEM W/ 2" EPS INSULATION BOARD.
9.03	E.I.F.S. W/ PREFORMED EPS INSULATION.
9.04	CONTINUOUS DRIP EDGE, TYPICAL.
9.05	'V' GROOVE CONTROL JOINT / REVEAL
9.06	PAINT EXPOSED FOUNDATION TO MATCH E.I.F.S.
9.07	'V' GROOVE REVEAL & PAINT ACCENT BANDING
9.08	CONT. DRAINAGE & VENT SYSTEM ALONG THE BOTTOM OF THE E.I.F.S.
9.10	3 5/8A INTERIOR METAL STUD FRAMING @ 16A O.C.
9.11	6A INTERIOR METAL STUD FRAMING @ 16A O.C.
9.12	5/8A GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DRAWINGS.
9.13	3 5/8" METAL STUD KICKER @ 4'-0" O.C. MAX
9.20	SUSPENDED METAL STUD / GYPSUM BOARD BULKHEAD - SEE REFLECTED CEILING PLAN
9.21	SUSPENDED ACOUSTICAL TILE CEILING SYSTEM - SEE SPECS. AND FINISH DRAWINGS
9.22	SUSPENDED METAL STUD / GYPSUM BOARD CEILING OR SOFFIT- SEE CEILING PLAN, DRAWING A5.1
9.23	SEE FINISH PLANS FOR INTERIOR FINISH INFORMATION.

10 - SPECIALTIES

10.01	LIGHTED SIGNAGE BY OWNER. GENERAL CONTRACTOR TO COORDINATE POWER AND CONNECTION REQUIREMENTS WITH SIGN MFR. SEE DETAIL 18/A7.2
10.02	BACK LIT AWNING SYSTEM BY OWNER - G.C. TO COORD. POWER & CONNECTION REQUIREMENTS.
10.03	CONT. L.E.D. STRIP LIGHTING ALONG PARAPET - SEE ELEVATIONS FOR EXTENT OF THE LOCATION

15 - MECHANICAL

15.01	PLUMBING FIXTURE - SEE PLUMBING DRAWINGS.
15.02	FIRE DEPARTMENT CONNECTION - SEAL AROUND PERIMETER - SEE PLUMB. DWGS.
15.03	FROSTPROOF HOSE BIBB - SEAL AROUND PERIMETER - SEE PLUMBING DWGS.
15.04	ROOF DRAIN - SEE PLUMBING DWGS.
15.10	MECHANICAL ROOF TOP UNIT - SEE MECH. DWGS.
15.11	MECHANICAL DUCTWORK - SEE MECH. DWGS.
15.12	EXHAUST FAN UNIT- SEE MECH. DWGS.

16 - ELECTRICAL

16.01	WALL MOUNTED LIGHT FIXTURE - SEE ELECT. DWGS.
16.02	RECESSED EXTERIOR LIGHT FIXTURE - SEE ELECT. DWGS.
16.03	INTERIOR LIGHT FIXTURE - SEE ELECT. DWGS.

REGISTRATION SEAL

FREDERICK J. GOGLIA REGISTERED ARCHITECT No. 2593 ARKANSAS

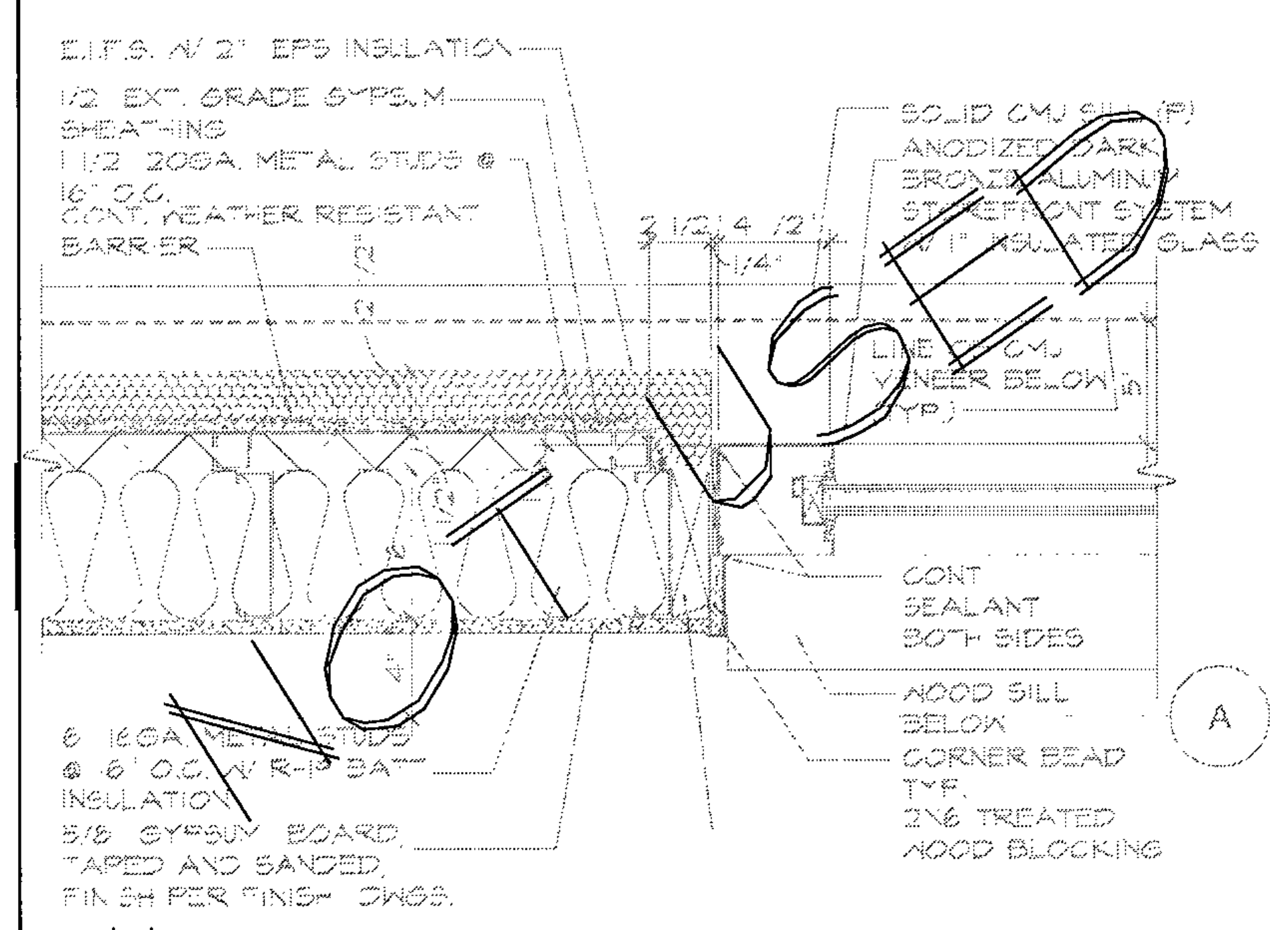
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

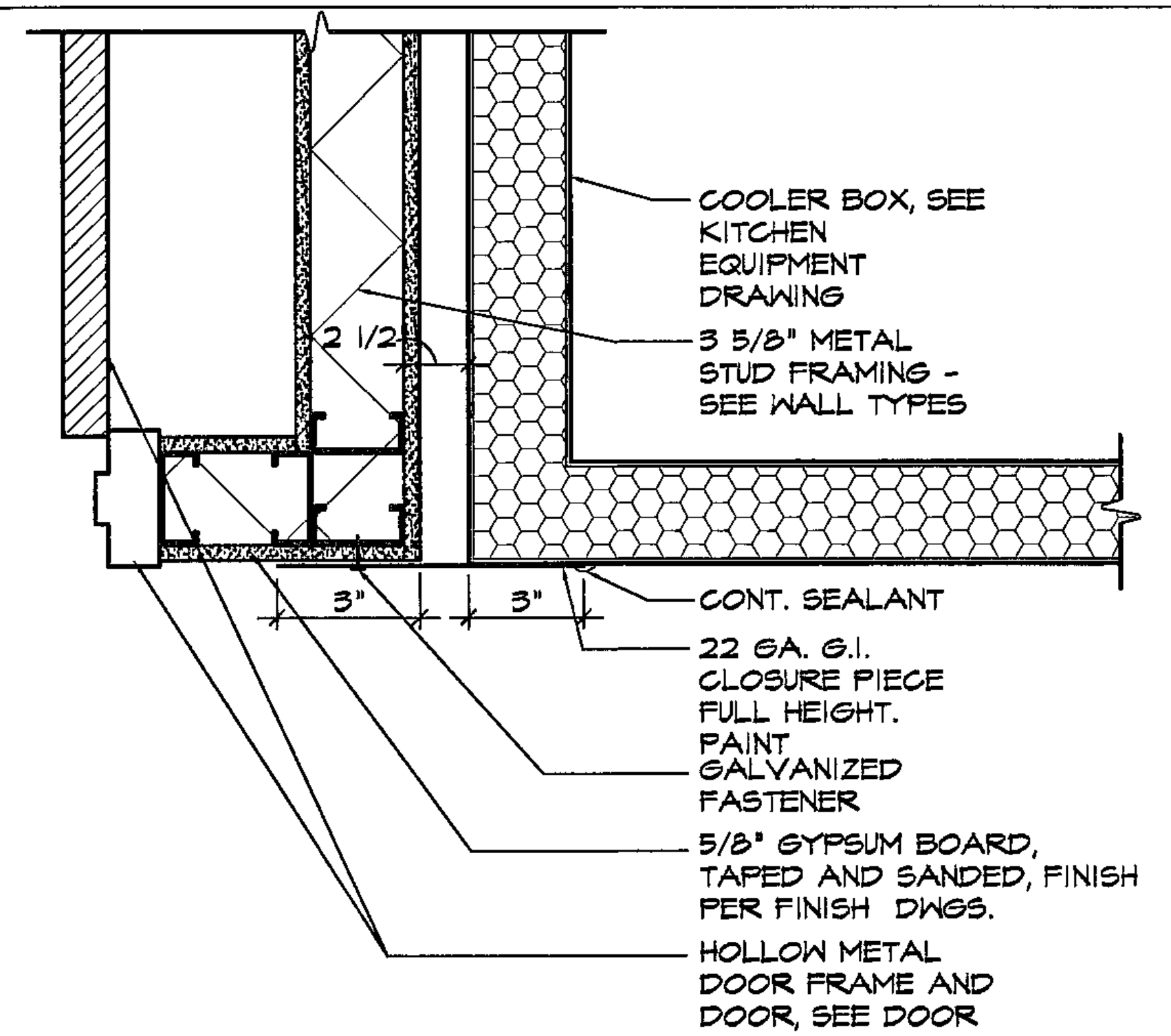
PROJECT NO: 090899
DRAWN BY: JCL
CHECKED BY: XXX
ISSUE DATE: 04/07/10

A6.1


E.I.F.S. W/ 2" EPS INSULATION
1/2" EXT. GRADE GYPSUM SHEATHING
1 1/2" 20GA. METAL STUDS @ 16" O.C.
CONT. WEATHER RESISTANT BARRIER
SOLID CMU SILL (P)
ANODIZED DARK BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS
LINE OF CMU VENEER BELOW (TYP.)
CONT SEALANT BOTH SIDES
WOOD SILL BELOW
CORNER BEAD TYP.
2X6 TREATED WOOD BLOCKING
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
3 1/2
4 1/2
1/4"
A
NOT USED

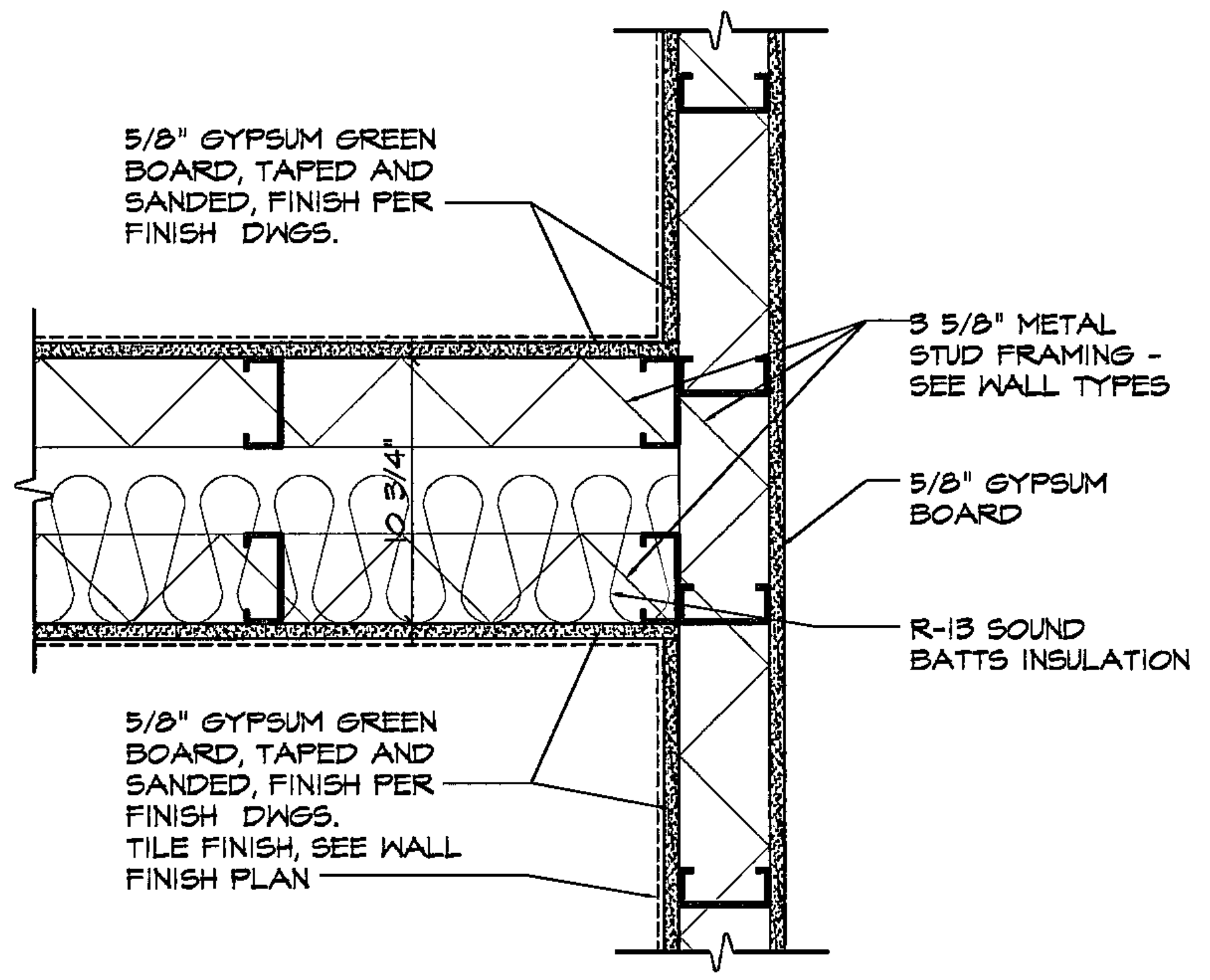
17 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


COOLER BOX, SEE KITCHEN EQUIPMENT DRAWING
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
2 1/2
3"
3"
CONT. SEALANT
22 GA. G.I. CLOSURE PIECE FULL HEIGHT. PAINT
GALVANIZED FASTENER
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
HOLLOW METAL DOOR FRAME AND DOOR, SEE DOOR SCHEDULE

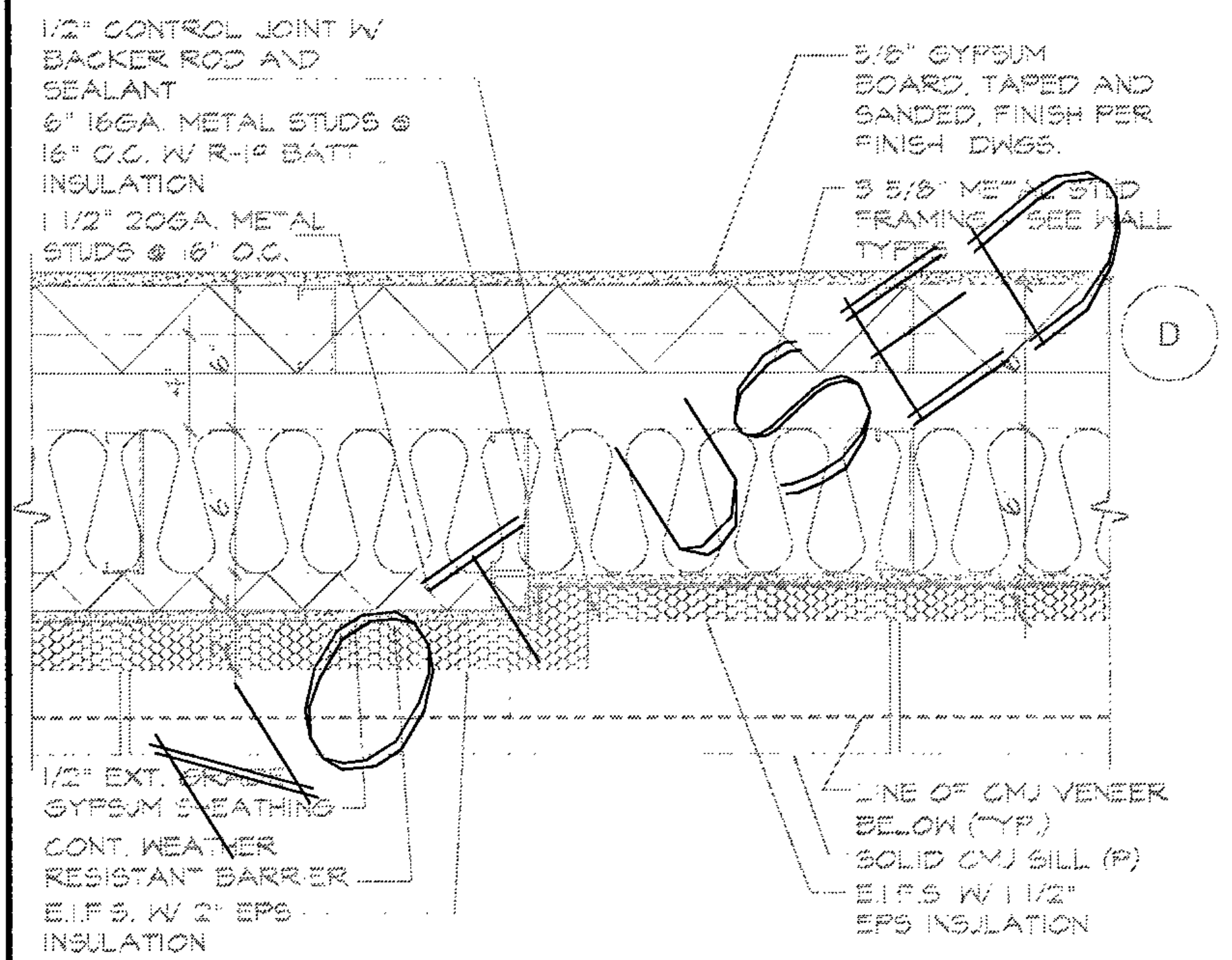
13 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


5/8" GYPSUM GREEN BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
5/8" GYPSUM BOARD
10 3/4"
R-13 SOUND BATTS INSULATION
5/8" GYPSUM GREEN BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
TILE FINISH, SEE WALL FINISH PLAN

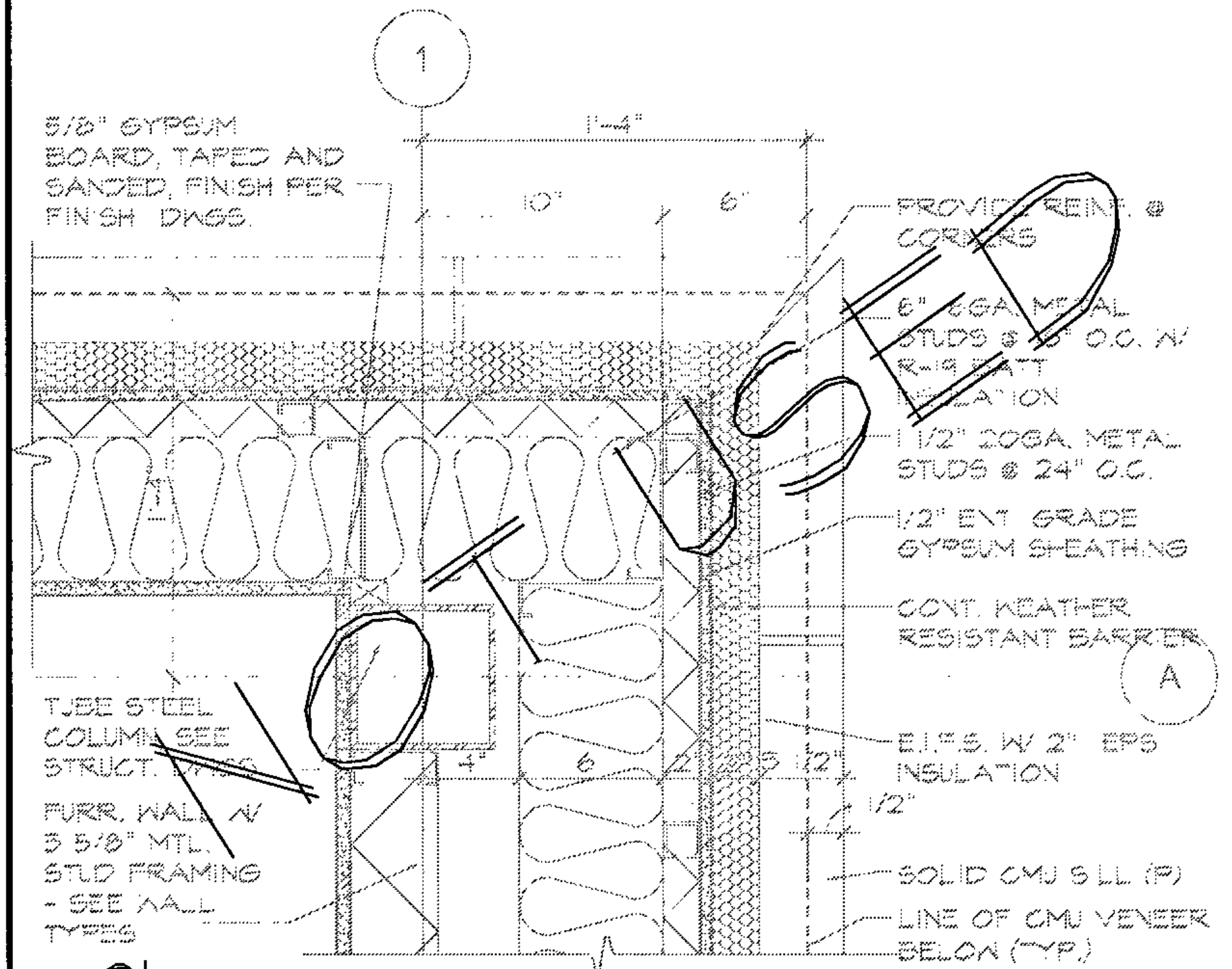
09 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


1/2" CONTROL JOINT W/ BACKER ROD AND SEALANT
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
1 1/2" 20GA. METAL STUDS @ 16" O.C.
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
D
1/2" EXT. GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
E.I.F.S. W/ 2" EPS INSULATION
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
E.I.F.S. W/ 1 1/2" EPS INSULATION
NOT USED

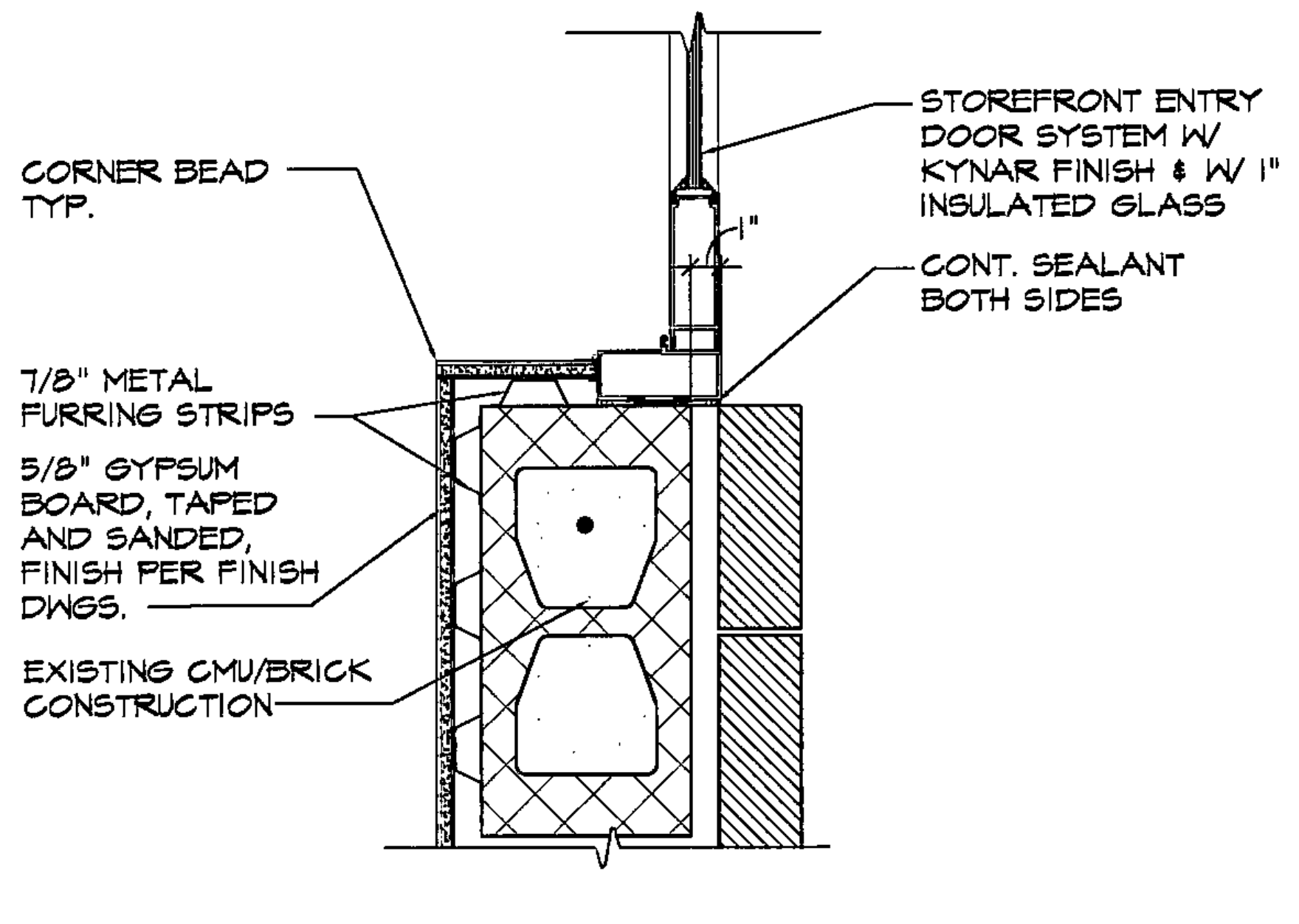
05 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


1
1'-4"
10"
6"
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
PROVIDE REINF. @ CORNERS
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
1 1/2" 20GA. METAL STUDS @ 24" O.C.
1/2" EXT. GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
A
TUBE STEEL COLUMN, SEE STRUCT. DWGS.
FURR. WALL W/ 3 5/8" MTL. STUD FRAMING - SEE WALL TYPES
E.I.F.S. W/ 2" EPS INSULATION
1/2"
SOLID CMU SILL (P)
LINE OF CMU VENEER BELOW (TYP.)
NOT USED

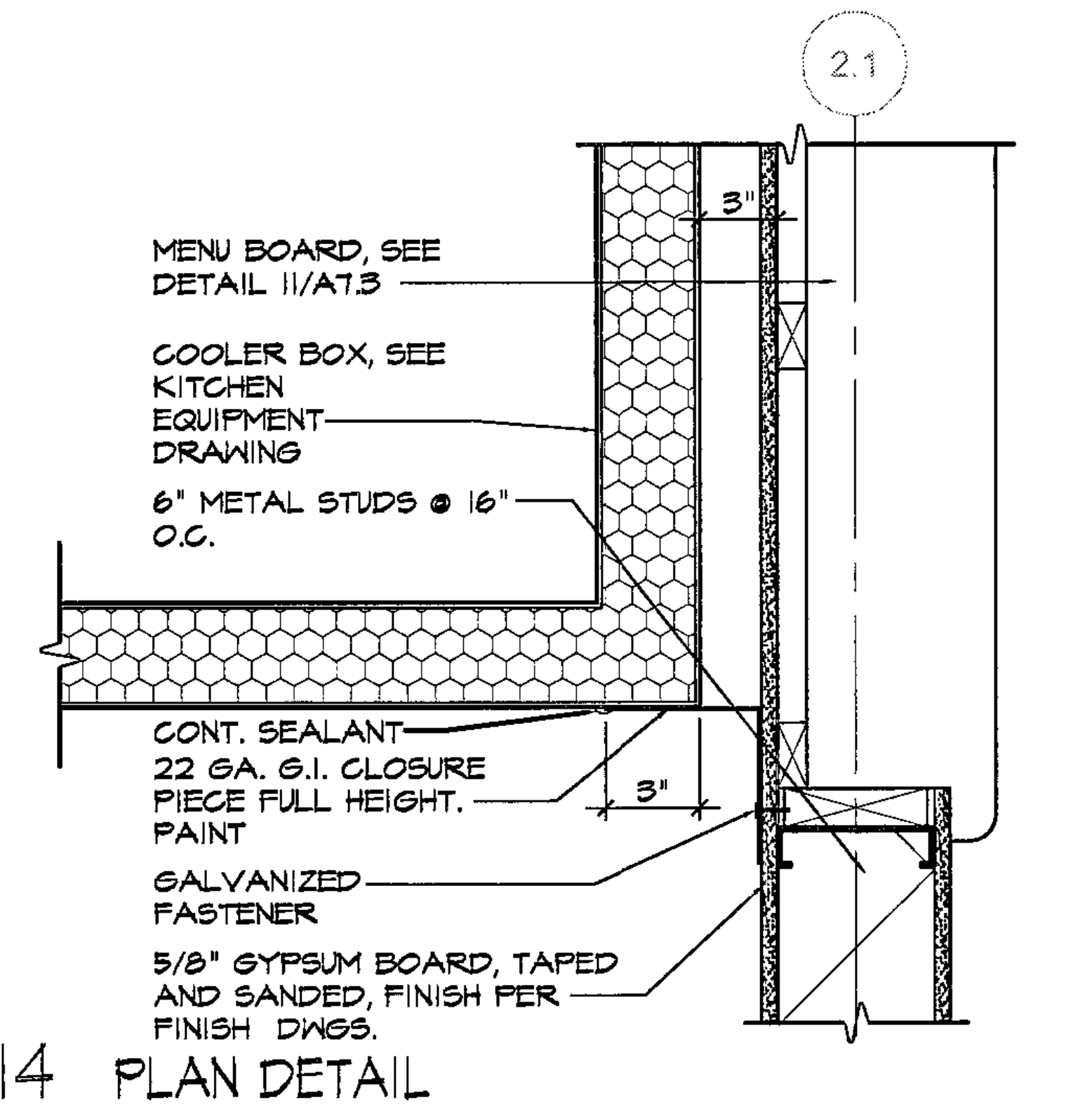
01 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


CORNER BEAD TYP.
STOREFRONT ENTRY DOOR SYSTEM W/ KYNAR FINISH & W/ 1" INSULATED GLASS
1"
CONT. SEALANT BOTH SIDES
7/8" METAL FURRING STRIPS
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
EXISTING CMU/BRICK CONSTRUCTION

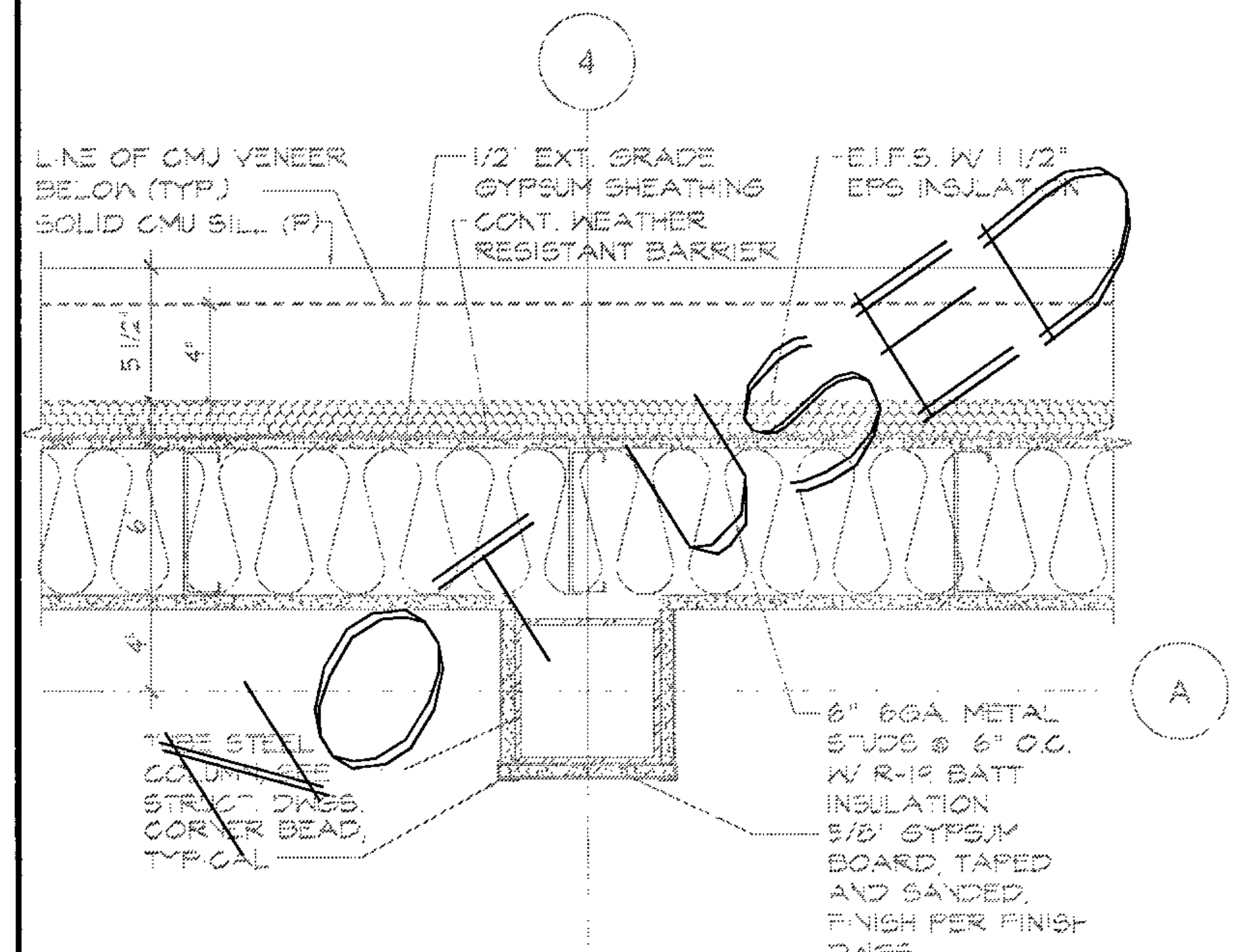
18 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


2.1
3"
MENU BOARD, SEE DETAIL 11/A7.3
COOLER BOX, SEE KITCHEN EQUIPMENT DRAWING
6" METAL STUDS @ 16" O.C.
CONT. SEALANT
22 GA. G.I. CLOSURE PIECE FULL HEIGHT. PAINT
3"
GALVANIZED FASTENER
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.

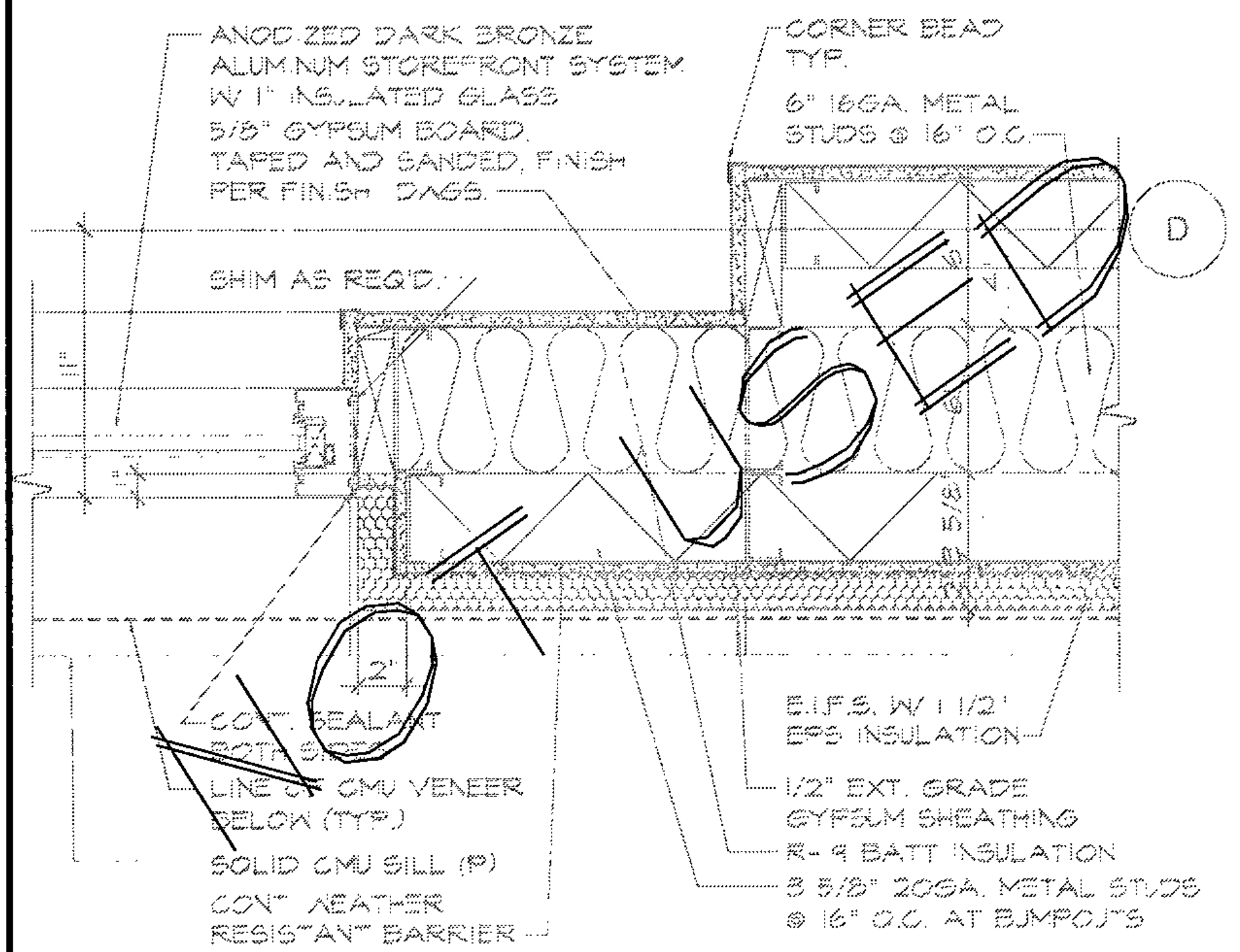
14 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


4
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
1/2" EXT. GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
E.I.F.S. W/ 1 1/2" EPS INSULATION
A
TUBE STEEL COLUMN, SEE STRUCT. DWGS. CORNER BEAD, TYPICAL
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
NOT USED

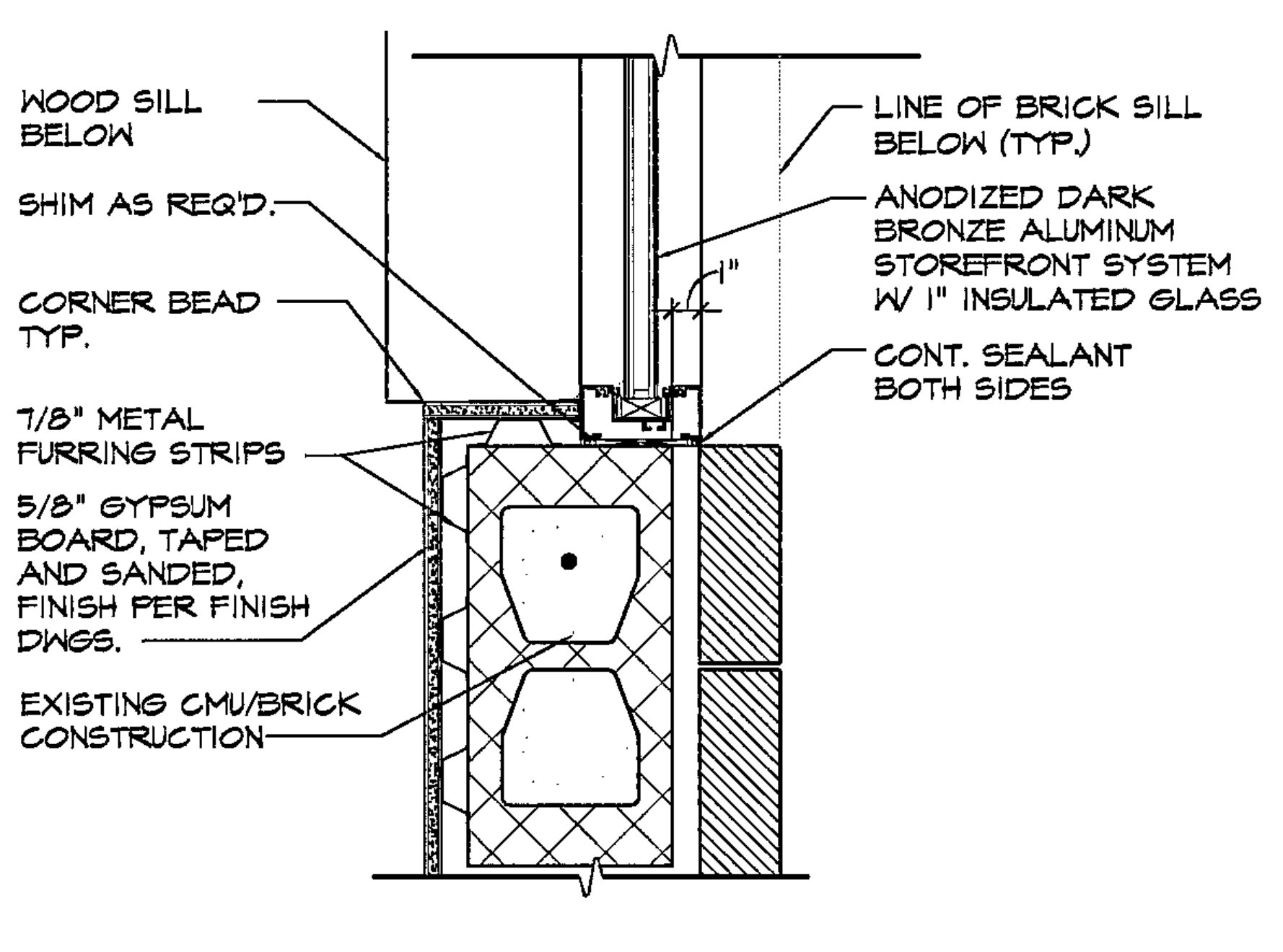
10 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


ANODIZED DARK BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
CORNER BEAD TYP.
6" 16GA. METAL STUDS @ 16" O.C.
D
SHIM AS REQ'D.
CONT. SEALANT BOTH SIDES
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
CONT. WEATHER RESISTANT BARRIER
E.I.F.S. W/ 1 1/2" EPS INSULATION
1/2" EXT. GRADE GYPSUM SHEATHING
R-9 BATT INSULATION
3 5/8" 20GA. METAL STUDS @ 16" O.C. AT BUMPOUTS
NOT USED

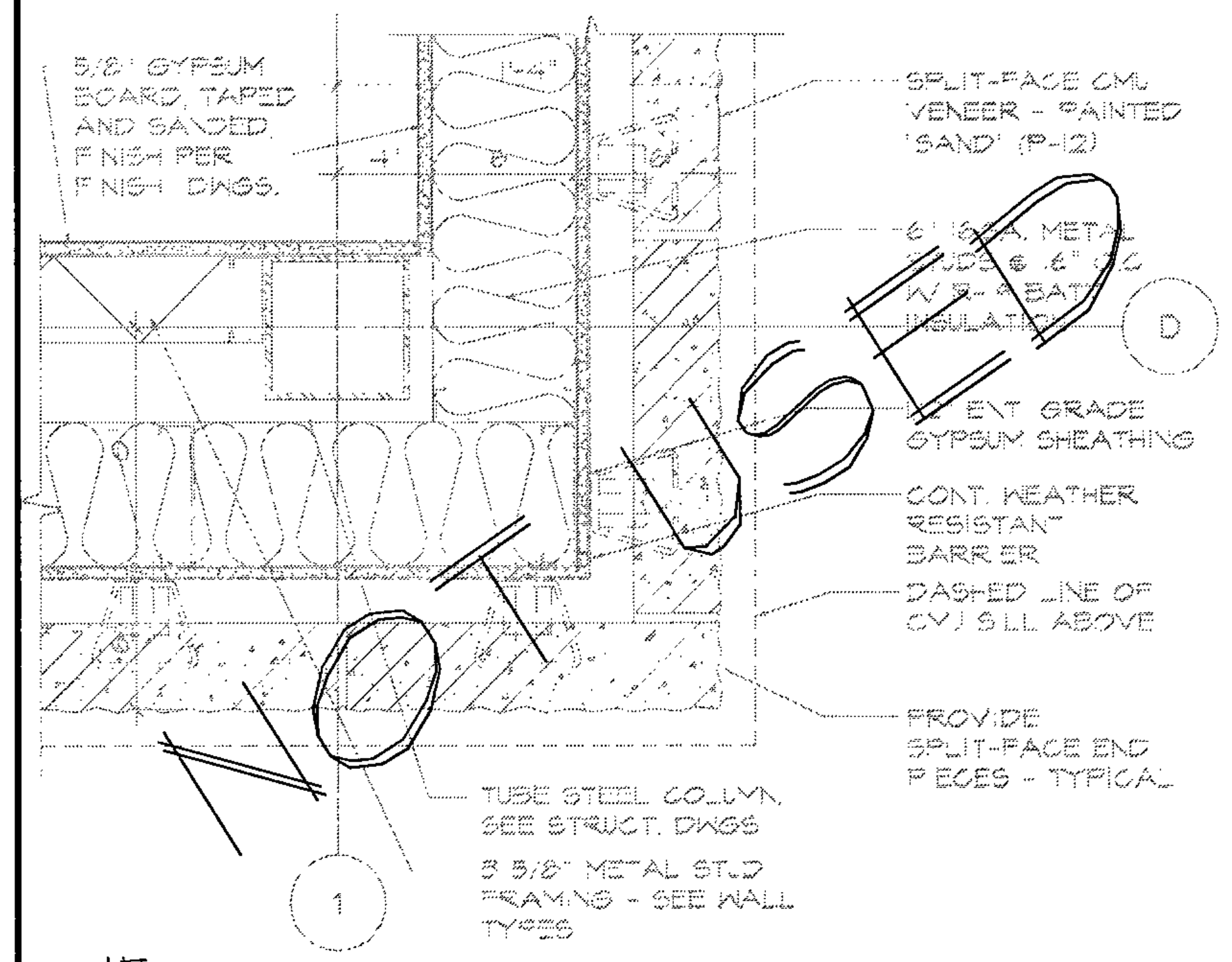
06 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


WOOD SILL BELOW
SHIM AS REQ'D.
CORNER BEAD TYP.
7/8" METAL FURRING STRIPS
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
EXISTING CMU/BRICK CONSTRUCTION
LINE OF BRICK SILL BELOW (TYP.)
ANODIZED DARK BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS
1"
CONT. SEALANT BOTH SIDES

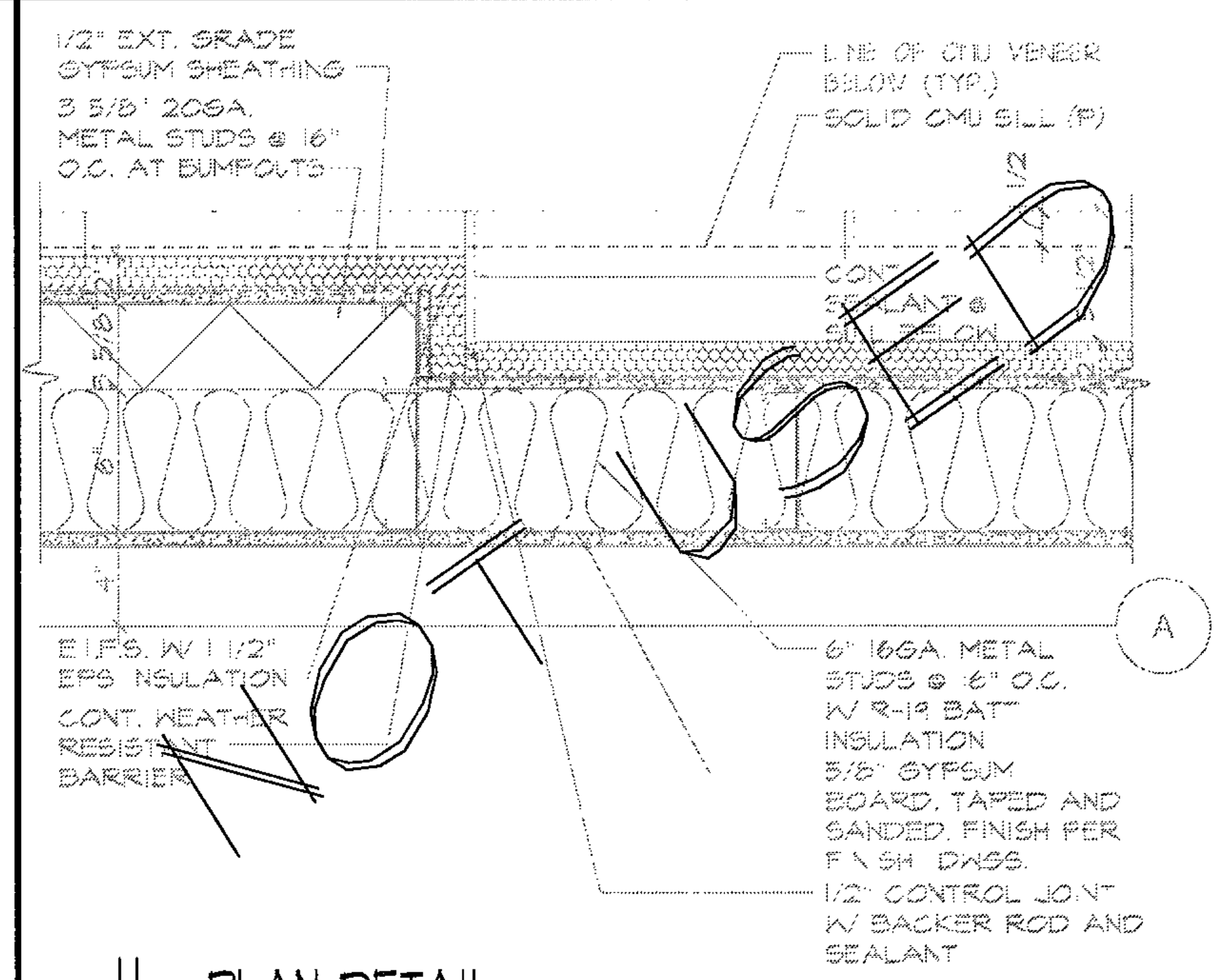
02 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
1'-4"
SPLIT-FACE CMU VENEER - PAINTED 'SAND' (P-12)
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
D
1/2" EXT. GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
DASHED LINE OF CMU SILL ABOVE
PROVIDE SPLIT-FACE END PIECES - TYPICAL
TUBE STEEL COLUMN, SEE STRUCT. DWGS
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
1
NOT USED

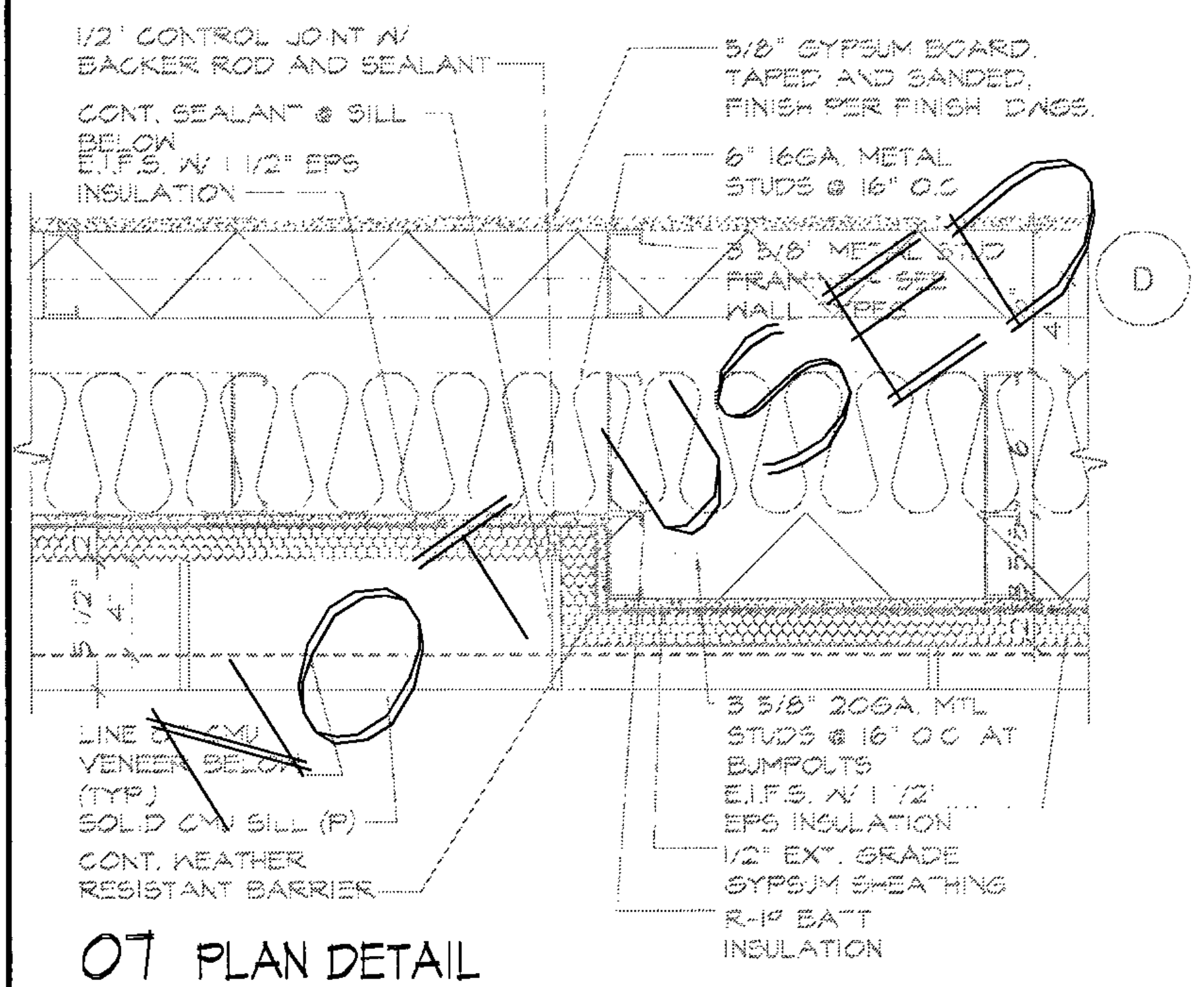
15 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


1/2" EXT. GRADE GYPSUM SHEATHING
3 5/8" 20GA. METAL STUDS @ 16" O.C. AT BUMPOUTS
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
CONT. SEALANT @ SILL BELOW
A
E.I.F.S. W/ 1 1/2" EPS INSULATION
CONT. WEATHER RESISTANT BARRIER
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
1/2" CONTROL JOINT W/ BACKER ROD AND SEALANT
NOT USED

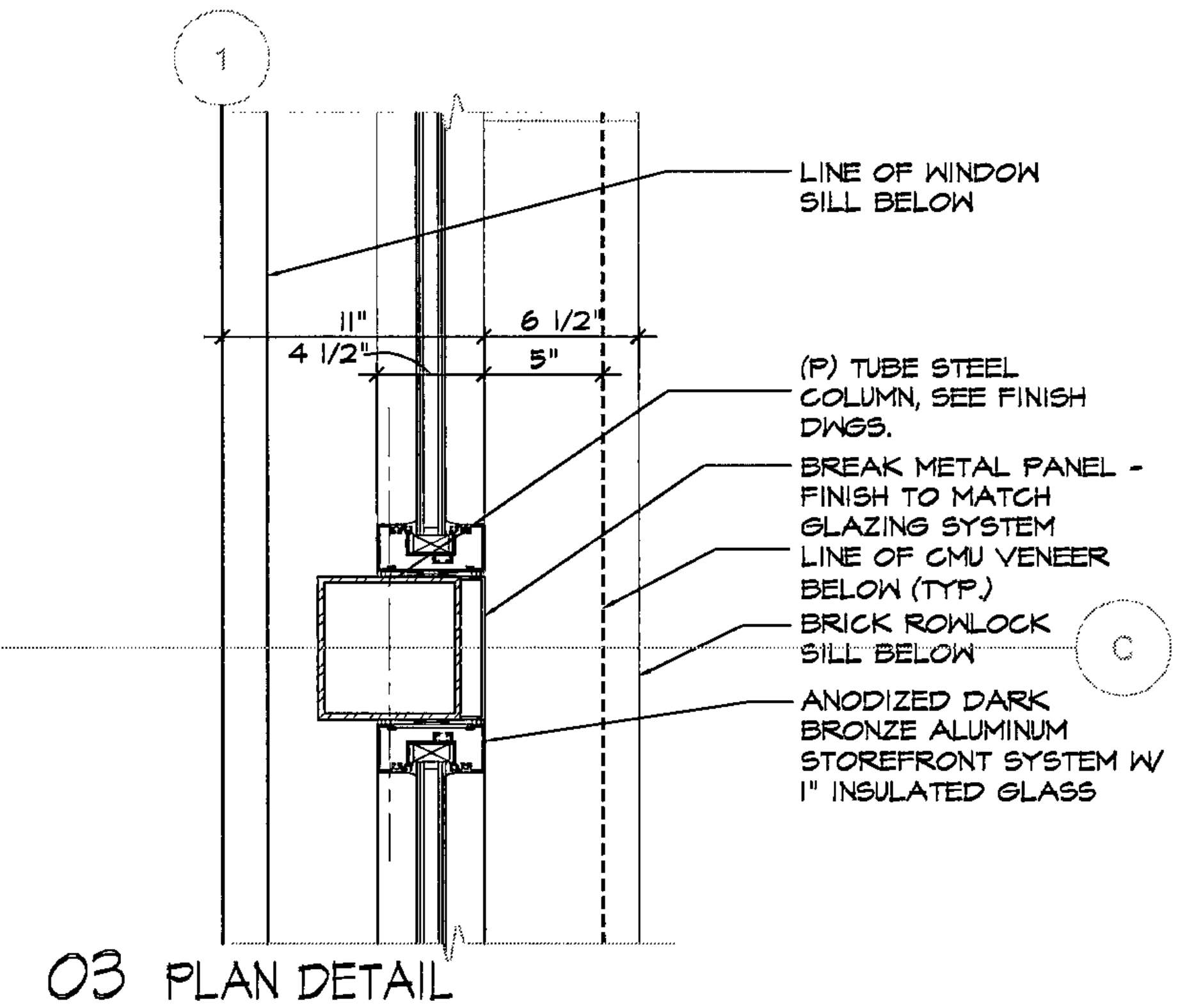
11 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


1/2" CONTROL JOINT W/ BACKER ROD AND SEALANT
CONT. SEALANT @ SILL BELOW
E.I.F.S. W/ 1 1/2" EPS INSULATION
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
6" 16GA. METAL STUDS @ 16" O.C.
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
D
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
CONT. WEATHER RESISTANT BARRIER
3 5/8" 20GA. MTL STUDS @ 16" O.C. AT BUMPOUTS
E.I.F.S. W/ 1 1/2" EPS INSULATION
1/2" EXT. GRADE GYPSUM SHEATHING
R-19 BATT INSULATION
NOT USED

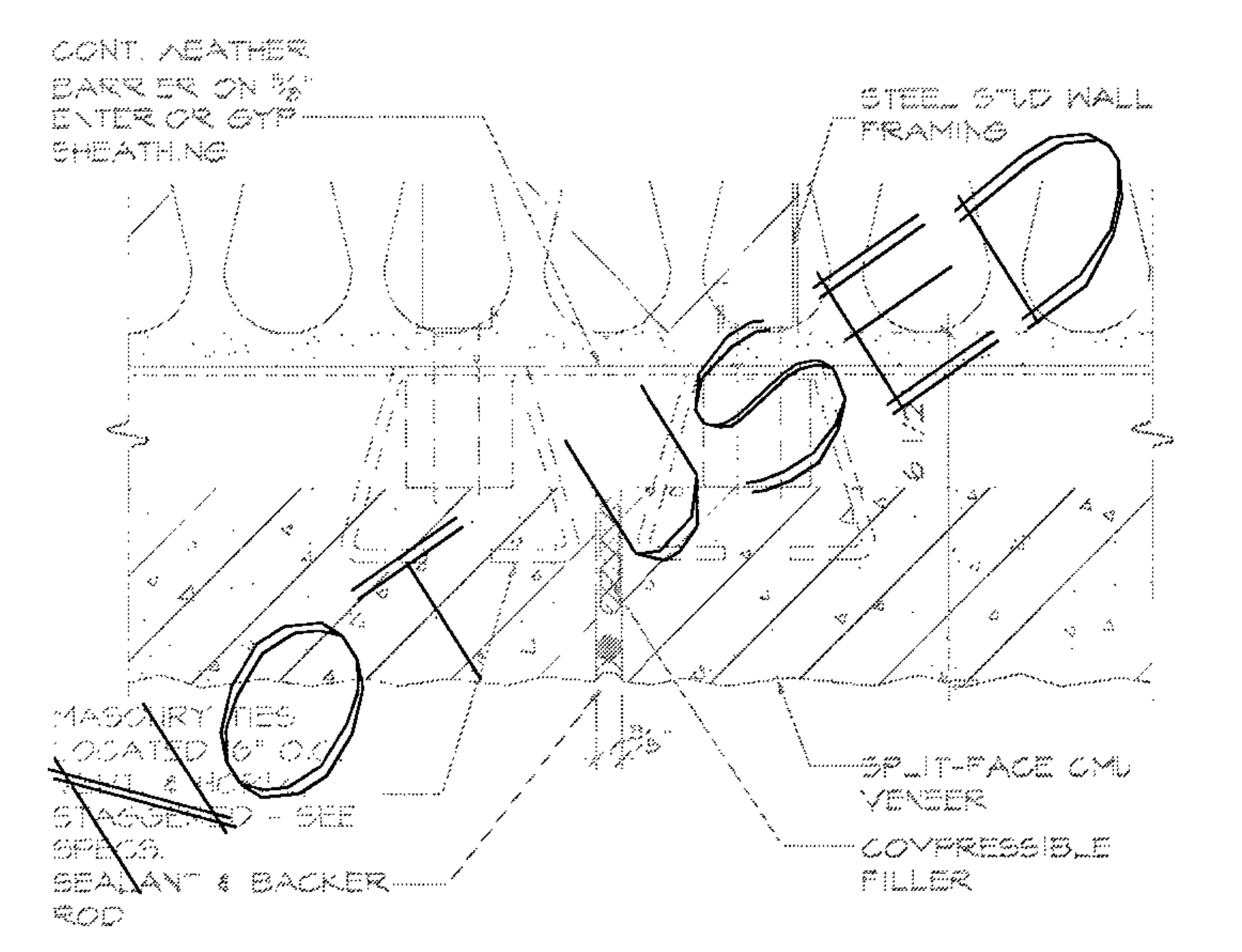
07 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


1
LINE OF WINDOW SILL BELOW
11"
6 1/2"
4 1/2"
5"
(P) TUBE STEEL COLUMN, SEE FINISH DWGS.
BREAK METAL PANEL - FINISH TO MATCH GLAZING SYSTEM
LINE OF CMU VENEER BELOW (TYP.)
BRICK ROWLOCK SILL BELOW
C
ANODIZED DARK BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS

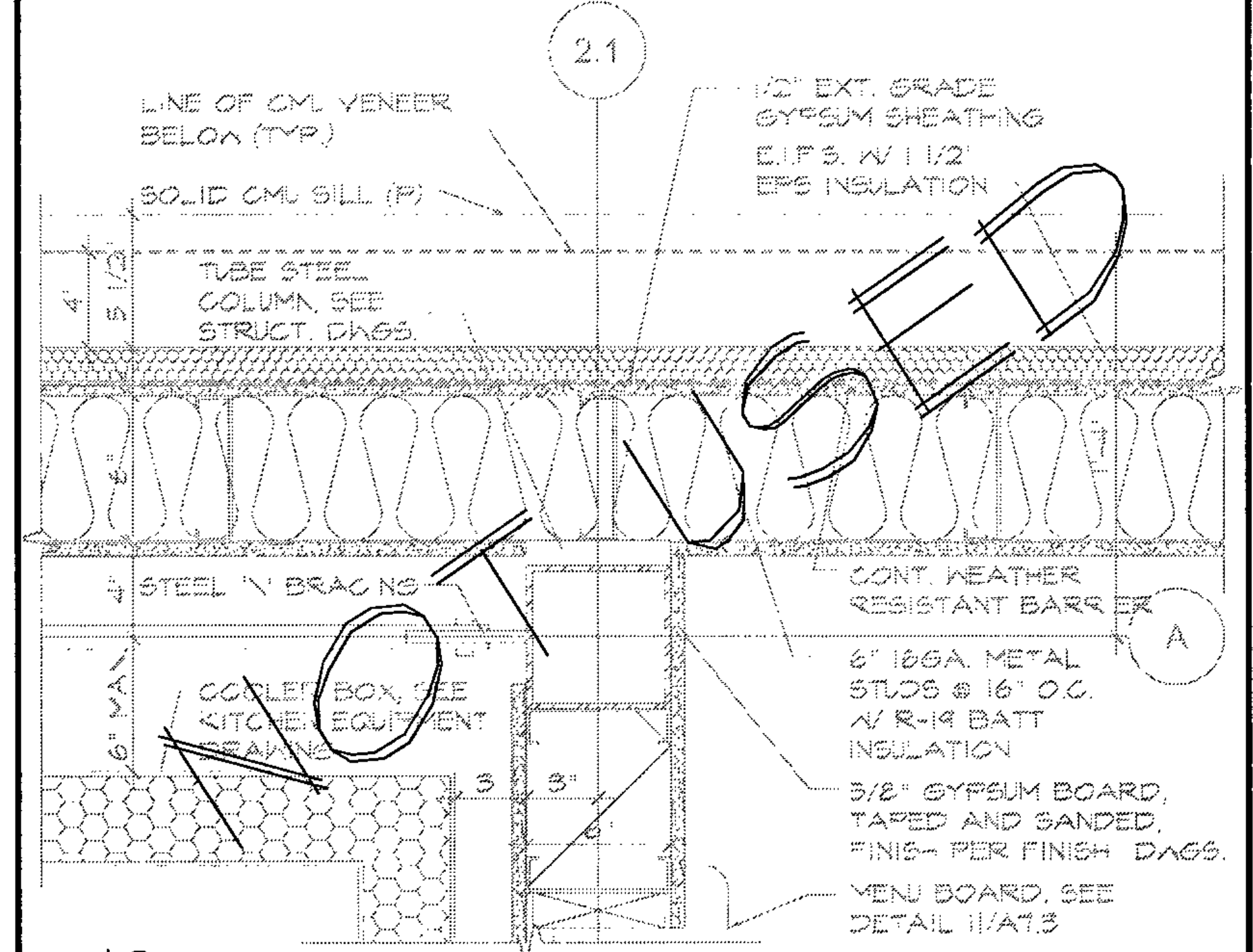
03 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


CONT. WEATHER BARRIER ON 5/8" EXTERIOR GYP SHEATHING
STEEL STUD WALL FRAMING
MASONRY TIES LOCATED 16" O.C. VERT. & HORIZ. STAGGERED - SEE SPECS.
SEALANT & BACKER ROD
SPLIT-FACE CMU VENEER
COMPRESSIBLE FILLER
NOT USED

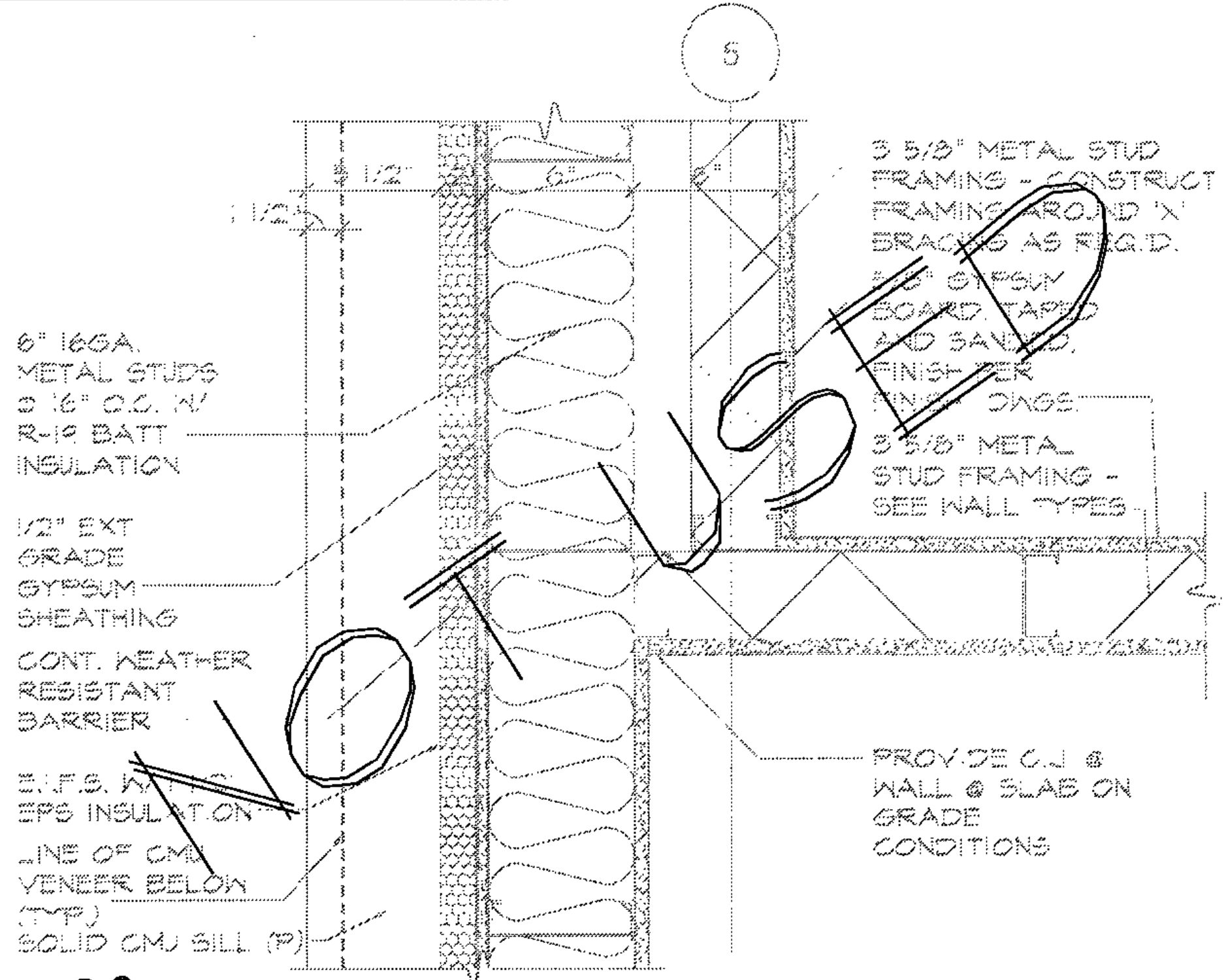
16 MASONRY CONTROL JOINT

SCALE: 3" = 1'-0"


2.1
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
1/2" EXT. GRADE GYPSUM SHEATHING
E.I.F.S. W/ 1 1/2" EPS INSULATION
TUBE STEEL COLUMN, SEE STRUCT. DWGS.
STEEL 'X' BRACINGS
CONT. WEATHER RESISTANT BARRIER
A
COOLER BOX, SEE KITCHEN EQUIPMENT DRAWING
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
MENU BOARD, SEE DETAIL 11/A7.3
NOT USED

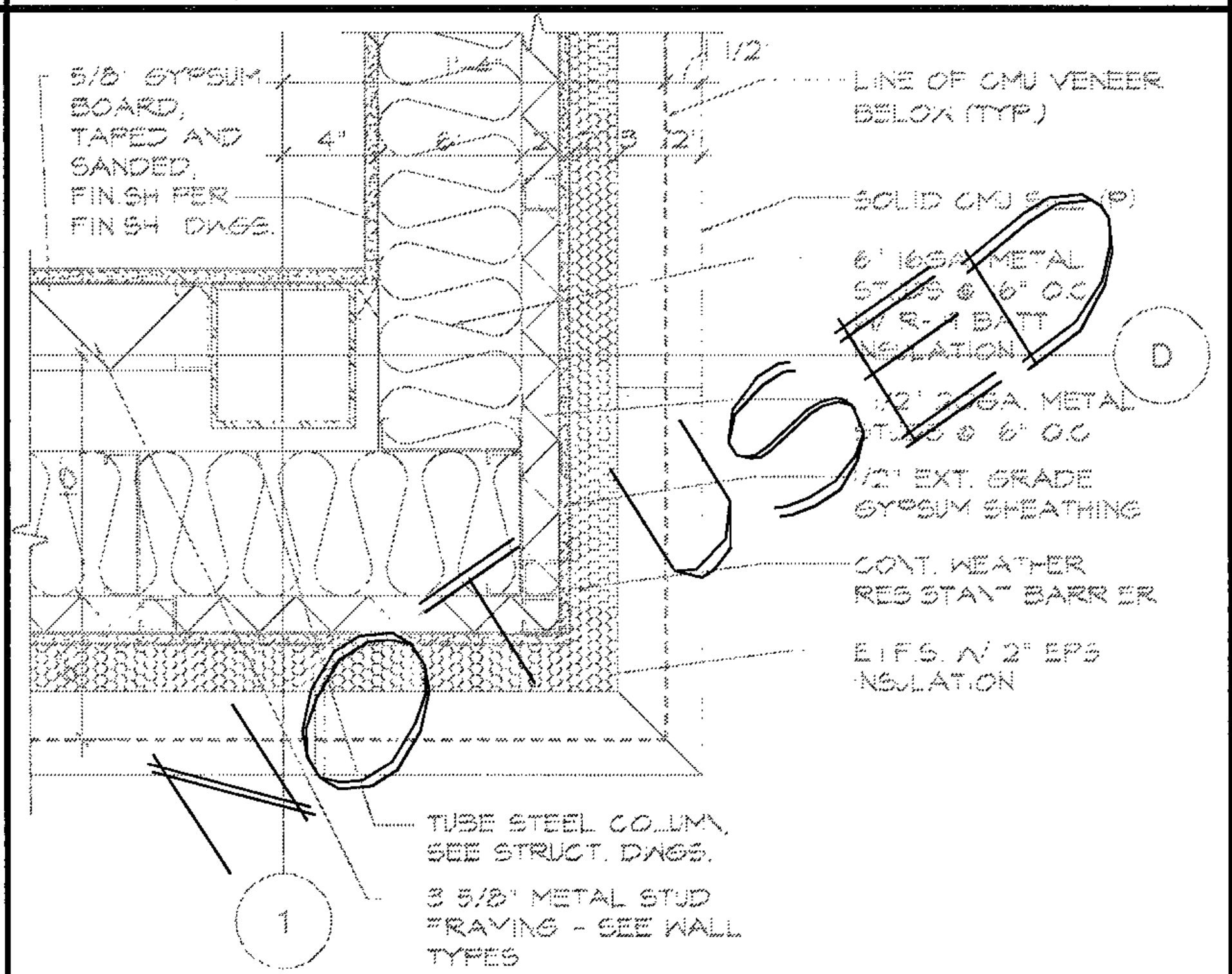
12 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


5
1 1/2"
6"
3 5/8" METAL STUD FRAMING - CONSTRUCT FRAMING AROUND 'X' BRACING AS REQ'D.
5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
1/2" EXT GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
E.I.F.S. W/ 2" EPS INSULATION
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
PROVIDE C.J. @ WALL @ SLAB ON GRADE CONDITIONS
NOT USED

08 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"


5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DWGS.
1'-4"
4"
6"
1/2
LINE OF CMU VENEER BELOW (TYP.)
SOLID CMU SILL (P)
6" 16GA. METAL STUDS @ 16" O.C. W/ R-19 BATT INSULATION
D
1 1/2" 20GA. METAL STUDS @ 16" O.C.
1/2" EXT. GRADE GYPSUM SHEATHING
CONT. WEATHER RESISTANT BARRIER
E.I.F.S. W/ 2" EPS INSULATION
TUBE STEEL COLUMN, SEE STRUCT. DWGS.
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
1
NOT USED

04 PLAN DETAIL

SCALE: 1-1/2" = 1'-0"

REGISTRATION SEAL

No. 2985

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH (314) 415-2400 FAX (314) 415-2300 www.arcv.com

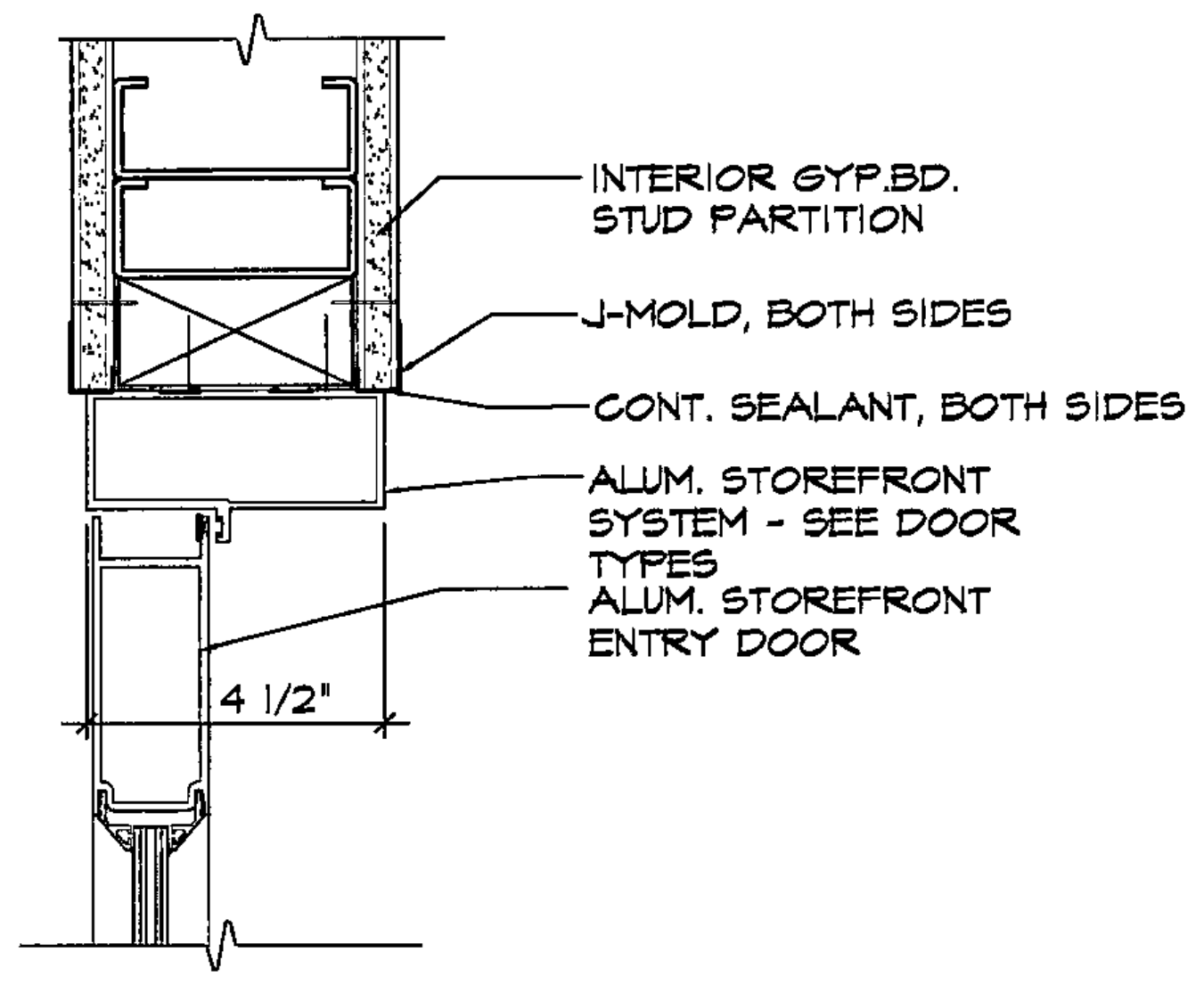
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: XXX
CHECKED BY: XXX
ISSUE DATE:
04/07/10

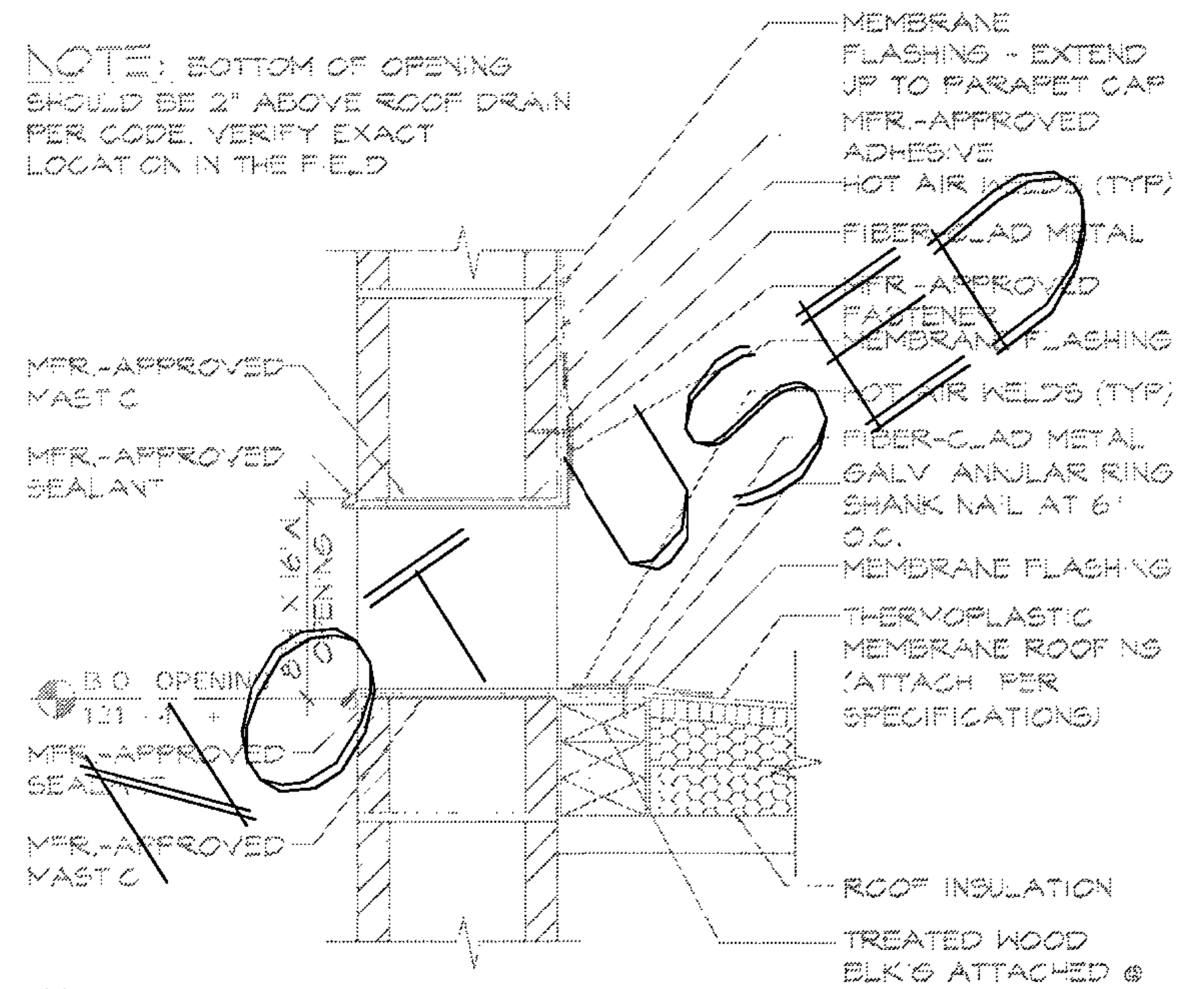
PLAN DETAILS

A7.0


INTERIOR GYP.BD. STUD PARTITION
J-MOLD, BOTH SIDES
CONT. SEALANT, BOTH SIDES
ALUM. STOREFRONT SYSTEM - SEE DOOR TYPES
ALUM. STOREFRONT ENTRY DOOR
4 1/2"

15 INTERIOR STOREFRONT DOOR JAMB

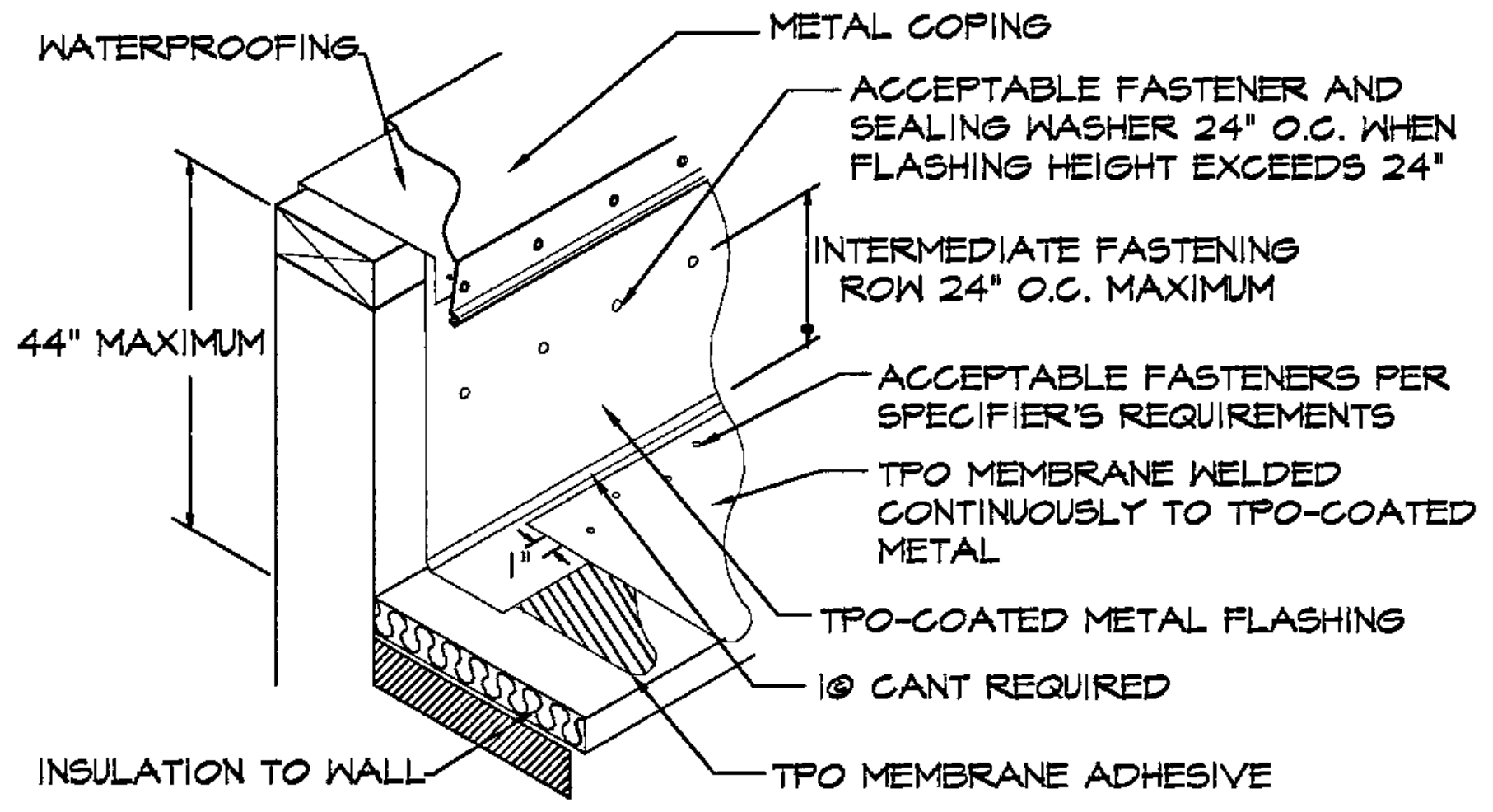
SCALE: 3" = 1'-0"



NOTE: BOTTOM OF OPENING SHOULD BE 2" ABOVE ROOF DRAIN PER CODE. VERIFY EXACT LOCATION IN THE FIELD

11 SCUPPER DETAIL

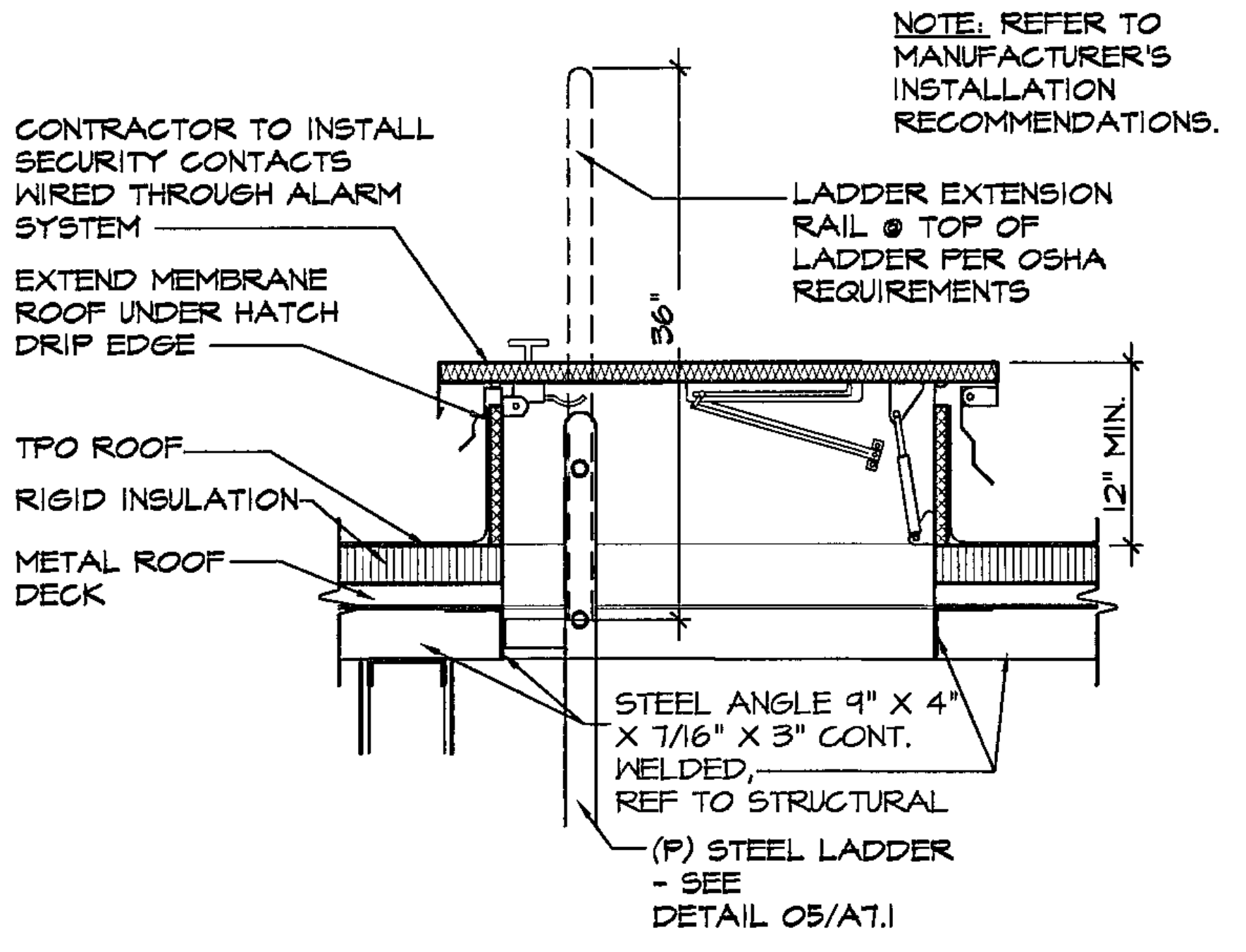
SCALE: 1-1/2" = 1'-0"


WATERPROOFING
METAL COPING
ACCEPTABLE FASTENER AND SEALING WASHER 24" O.C. WHEN FLASHING HEIGHT EXCEEDS 24"
INTERMEDIATE FASTENING ROW 24" O.C. MAXIMUM
44" MAXIMUM
ACCEPTABLE FASTENERS PER SPECIFIER'S REQUIREMENTS
TPO MEMBRANE WELDED CONTINUOUSLY TO TPO-COATED METAL
TPO-COATED METAL FLASHING
1"
1@ CANT REQUIRED
INSULATION TO WALL
TPO MEMBRANE ADHESIVE

NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.
3. COATED METAL IS RECOMMENDED FOR WALLS THAT ARE EXPOSED TO HIGH TRAFFIC AND/OR WINDOW WASHING EQUIPMENT.

07 PARAPET FLASHING DETAIL

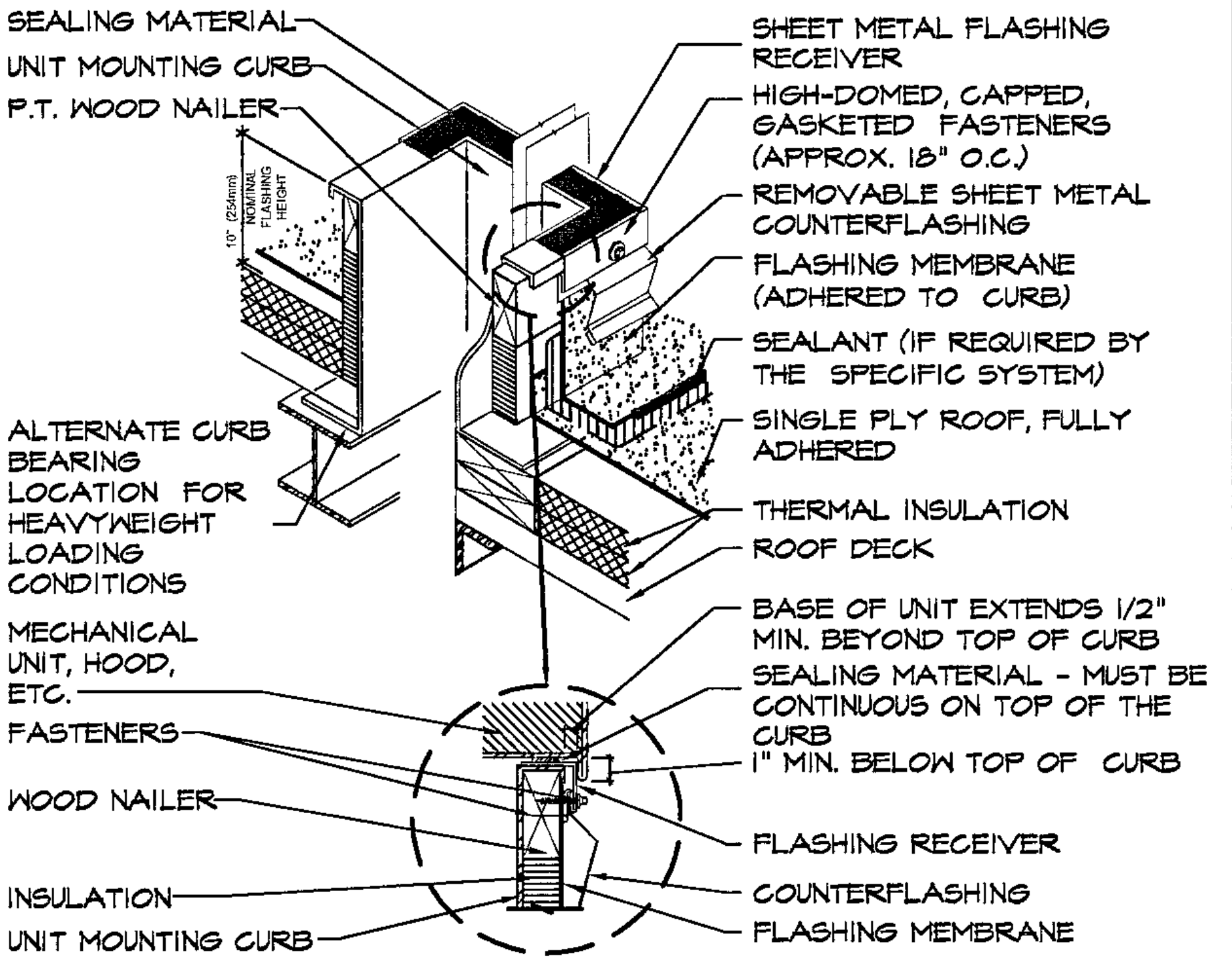
SCALE: N.T.S.


CONTRACTOR TO INSTALL SECURITY CONTACTS WIRED THROUGH ALARM SYSTEM
EXTEND MEMBRANE ROOF UNDER HATCH DRIP EDGE
TPO ROOF
RIGID INSULATION
METAL ROOF DECK
LADDER EXTENSION RAIL @ TOP OF LADDER PER OSHA REQUIREMENTS
36"
12" MIN.
STEEL ANGLE 9" X 4" X 7/16" X 3" CONT. WELDED, REF TO STRUCTURAL
(P) STEEL LADDER - SEE DETAIL 05/A7.1

NOTE: REFER TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

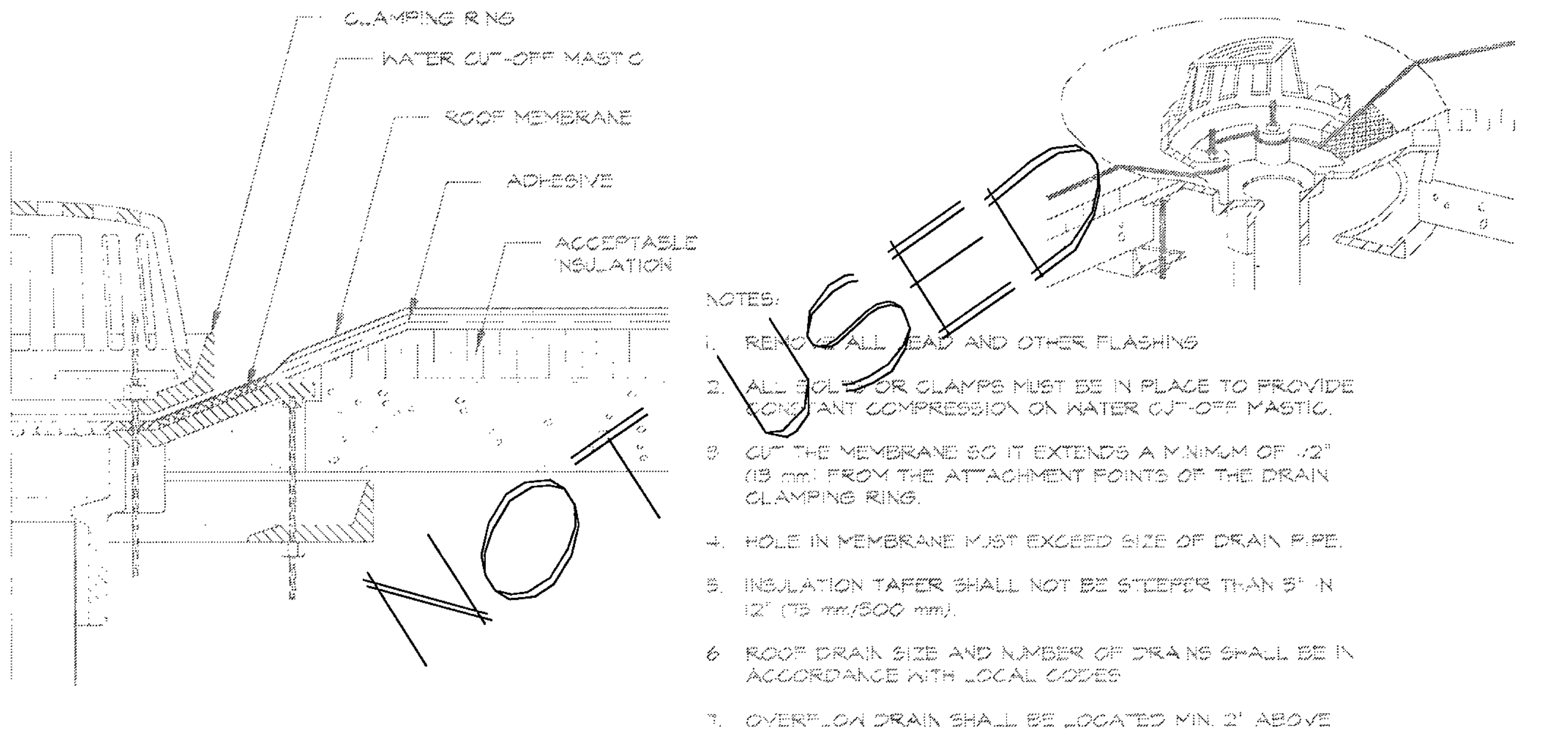
04 TYP. ROOF HATCH PENETRATION

SCALE: 3/4" = 1'-0"


SEALING MATERIAL
UNIT MOUNTING CURB
P.T. WOOD NAILER
10" (254mm) NOMINAL FLASHING HEIGHT
ALTERNATE CURB BEARING LOCATION FOR HEAVYWEIGHT LOADING CONDITIONS
MECHANICAL UNIT, HOOD, ETC.
FASTENERS
WOOD NAILER
INSULATION
UNIT MOUNTING CURB
SHEET METAL FLASHING RECEIVER
HIGH-DOMED, CAPPED, GASKETED FASTENERS (APPROX. 18" O.C.)
REMOVABLE SHEET METAL COUNTERFLASHING
FLASHING MEMBRANE (ADHERED TO CURB)
SEALANT (IF REQUIRED BY THE SPECIFIC SYSTEM)
SINGLE PLY ROOF, FULLY ADHERED
THERMAL INSULATION
ROOF DECK
BASE OF UNIT EXTENDS 1/2" MIN. BEYOND TOP OF CURB
SEALING MATERIAL - MUST BE CONTINUOUS ON TOP OF THE CURB
1" MIN. BELOW TOP OF CURB
FLASHING RECEIVER
COUNTERFLASHING
FLASHING MEMBRANE

01 RAISED CURB DETAIL

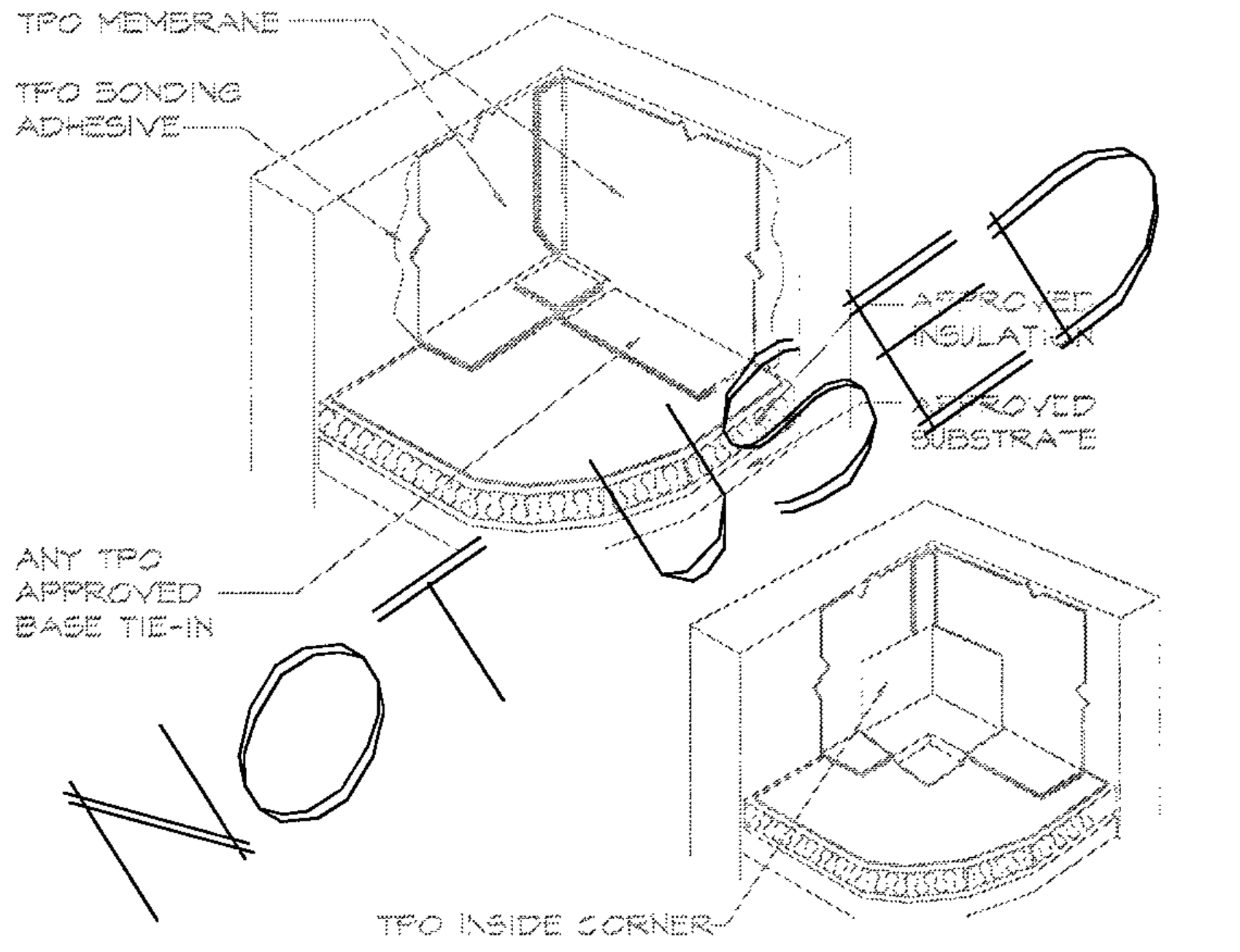
SCALE: N.T.S.



NOTES:
1. REMOVE ALL LEAD AND OTHER FLASHING
2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
3. CUT THE MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" (13 mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
4. HOLE IN MEMBRANE MUST EXCEED SIZE OF DRAIN PIPE.
5. INSULATION TAPER SHALL NOT BE STEEPER THAN 3" IN 12" (75 mm/300 mm) FROM THE DRAIN.
6. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH LOCAL CODES.
7. OVERFLOW DRAIN SHALL BE LOCATED MIN. 2" ABOVE ROOF DRAIN PER CODE.

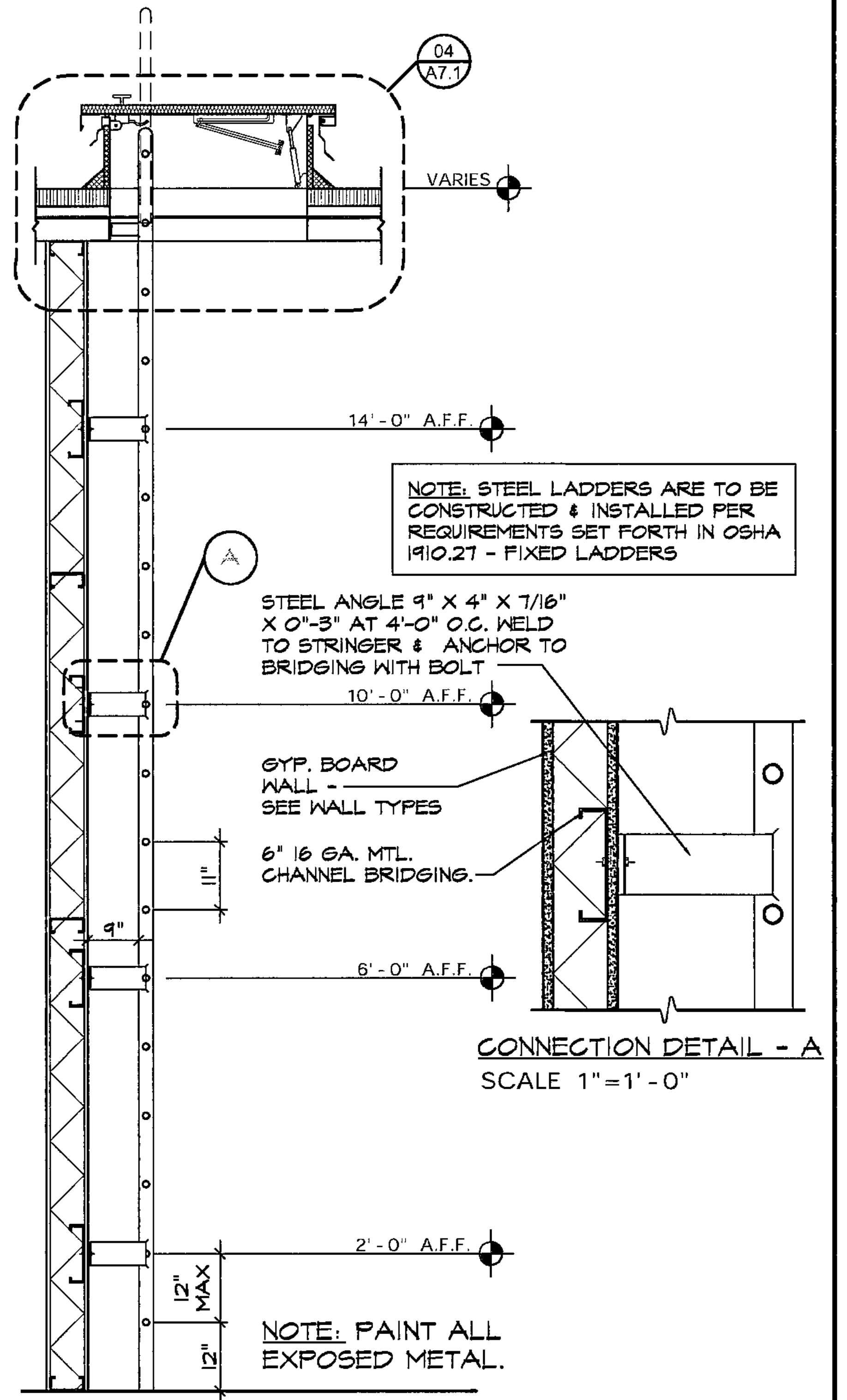
16 ROOF DRAIN DETAIL

SCALE: N.T.S.



08 INSIDE CORNER DETAIL

SCALE: N.T.S.


04
A7.1
VARIES
14'-0" A.F.F.
A
10'-0" A.F.F.
STEEL ANGLE 9" X 4" X 7/16" X 0"-3" AT 4'-0" O.C. WELD TO STRINGER & ANCHOR TO BRIDGING WITH BOLT
GYP. BOARD WALL - SEE WALL TYPES
6" 16 GA. MTL. CHANNEL BRIDGING.
11"
9"
6'-0" A.F.F.
2'-0" A.F.F.
12" MAX
12"

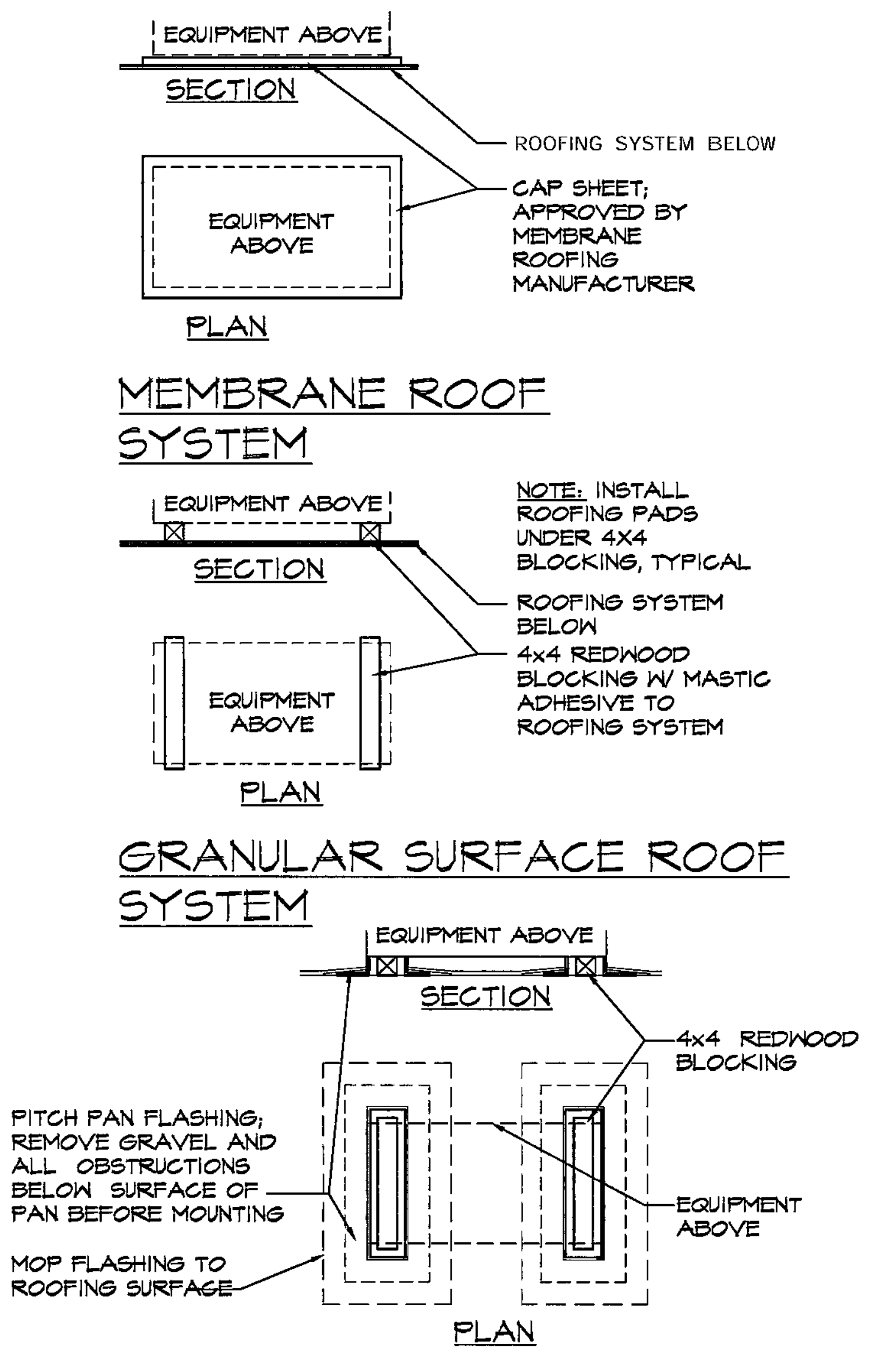
NOTE: STEEL LADDERS ARE TO BE CONSTRUCTED & INSTALLED PER REQUIREMENTS SET FORTH IN OSHA 1910.27 - FIXED LADDERS

CONNECTION DETAIL - A
SCALE 1"=1'-0"

NOTE: PAINT ALL EXPOSED METAL.

05 ROOF ACCESS LADDER

SCALE: 1/2" = 1'-0"


EQUIPMENT ABOVE
SECTION
ROOFING SYSTEM BELOW
EQUIPMENT ABOVE
CAP SHEET; APPROVED BY MEMBRANE ROOFING MANUFACTURER
PLAN
EQUIPMENT ABOVE
SECTION
ROOFING SYSTEM BELOW
EQUIPMENT ABOVE
4x4 REDWOOD BLOCKING W/ MASTIC ADHESIVE TO ROOFING SYSTEM
PLAN
EQUIPMENT ABOVE
SECTION
4x4 REDWOOD BLOCKING
PITCH PAN FLASHING; REMOVE GRAVEL AND ALL OBSTRUCTIONS BELOW SURFACE OF PAN BEFORE MOUNTING
EQUIPMENT ABOVE
MOP FLASHING TO ROOFING SURFACE
PLAN

MEMBRANE ROOF SYSTEM

NOTE: INSTALL ROOFING PADS UNDER 4X4 BLOCKING, TYPICAL

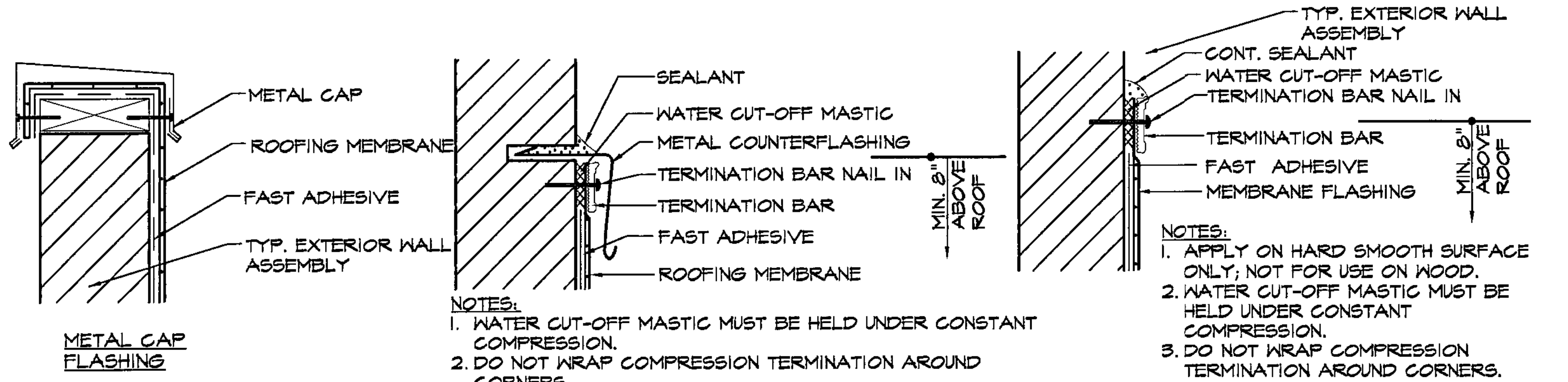
GRANULAR SURFACE ROOF SYSTEM

TAR, FELT, & GRAVEL ROOF SYSTEM

NOTE: G.C. TO PROVIDE AND INSTALL CURB AND EQUIPMENT SUPPORTS

02 ROOF EQUIPT. SUPPORT DETAIL

SCALE: 1/2" = 1'-0"



METAL CAP FLASHING

NOTES:
1. WATER CUT-OFF MASTIC MUST BE HELD UNDER CONSTANT COMPRESSION.
2. DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.
3. ALLOW 1/4 MINIMUM TO 1/2" MAXIMUM (6) SPACING BETWEEN CONSECUTIVE LENGTHS OF TERMINATION BAR.

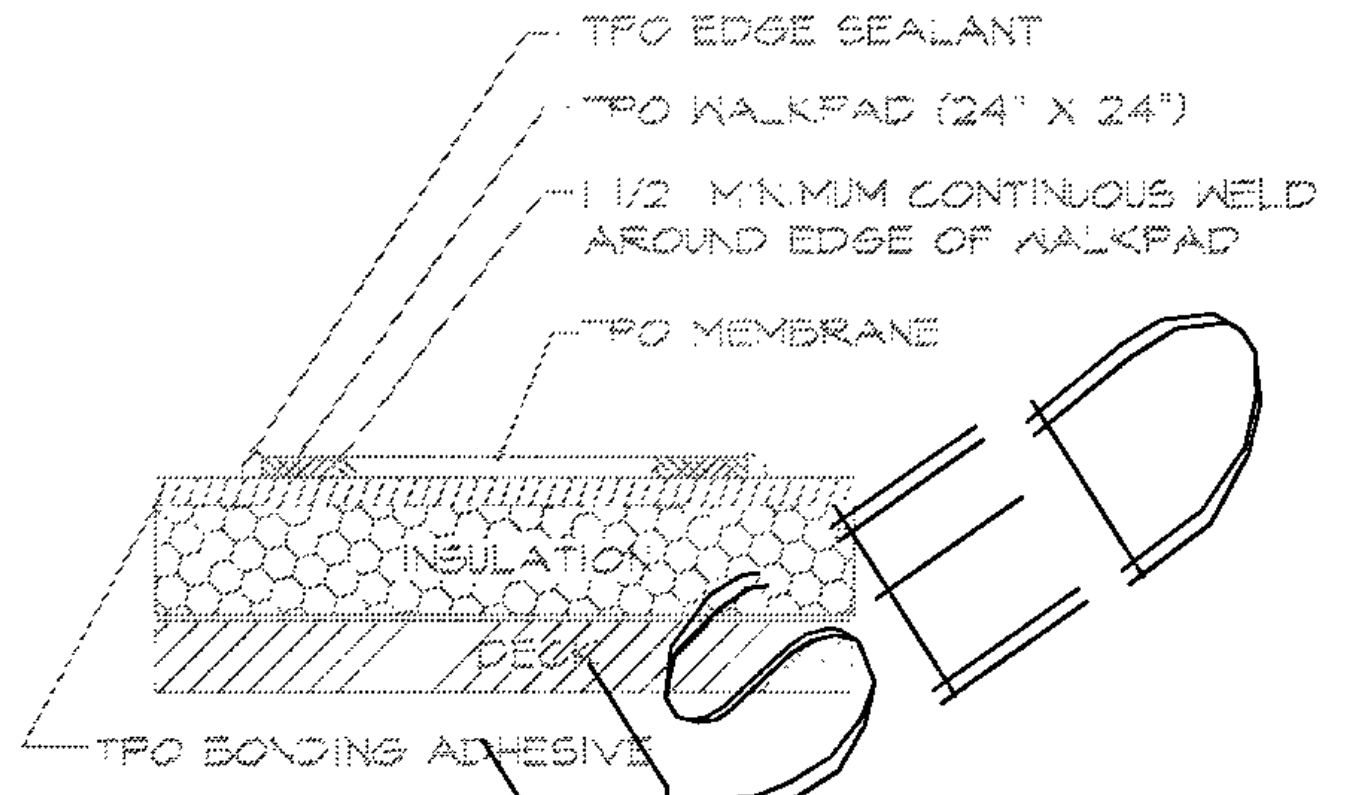
COUNTERFLASHING/TERMINATION BAR

NOTES:
1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON WOOD.
2. WATER CUT-OFF MASTIC MUST BE HELD UNDER CONSTANT COMPRESSION.
3. DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.
4. ALLOW 1/4" (6 mm) MINIMUM TO 1/2" MAXIMUM SPACING BETWEEN CONSECUTIVE LENGTHS OF TERMINATION BAR.

TERMINATION BAR

17 VERTICAL FLASHING TERMINATION DETAILS

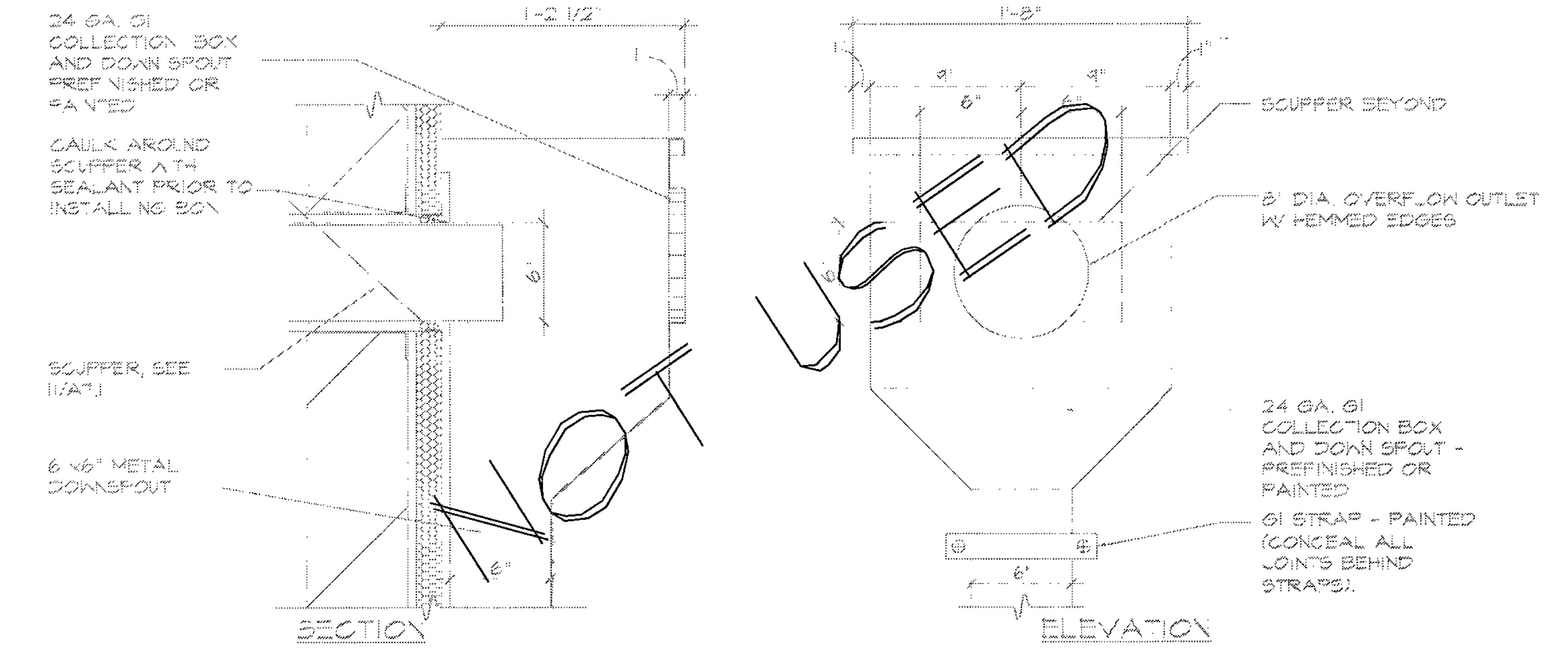
SCALE: N.T.S.



NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
3. WALKPAD IS NOT INTENDED FOR USE IN HEAVY TRAFFIC AREAS.
4. THE WALKPADS MUST NOT BE INSTALLED OVER FIELD SEAMS AND FASTENER ROWS AND MUST BE GAPPED FROM THESE AREAS A MINIMUM OF 6"

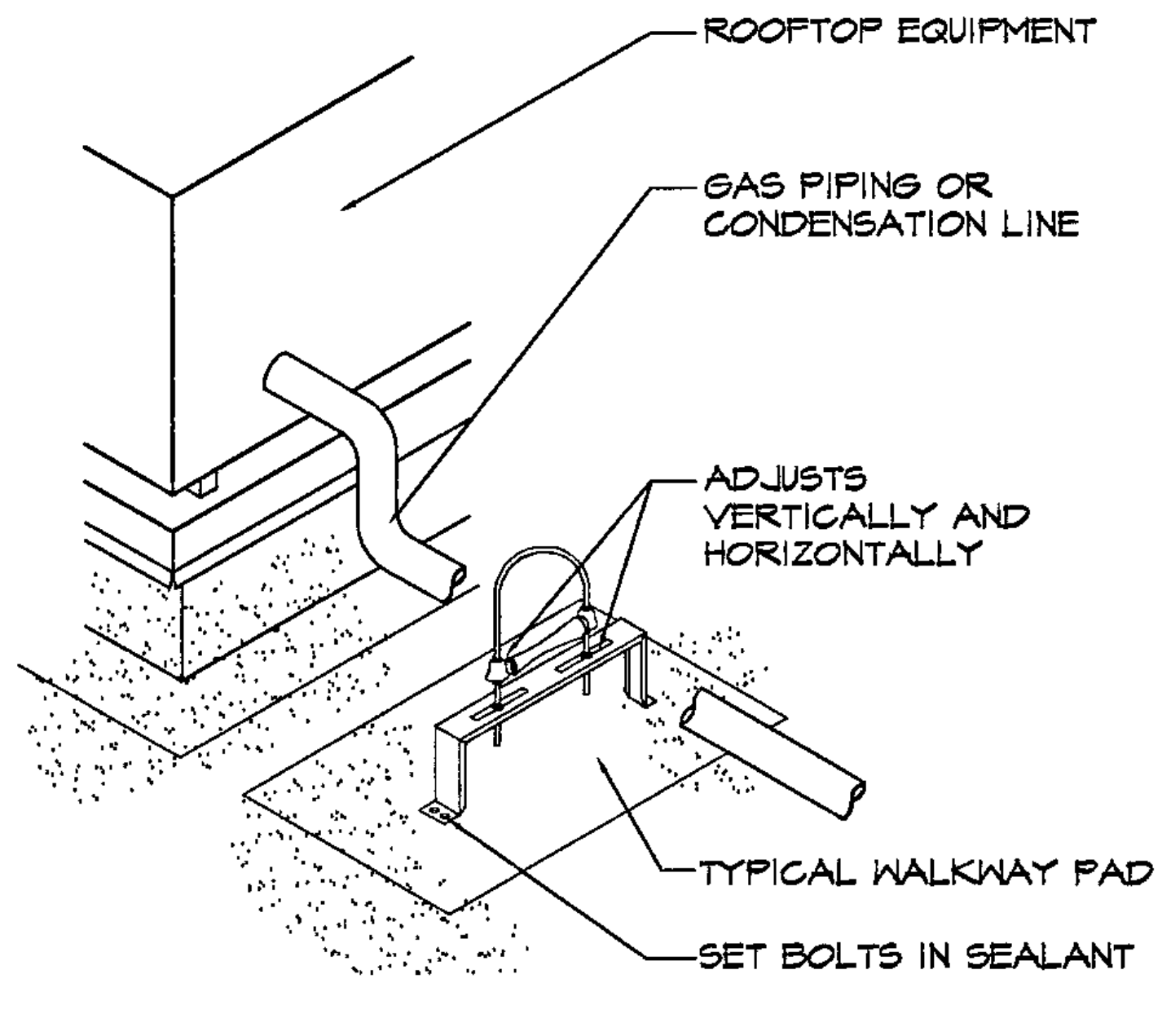
09 WALKWAY PAD

SCALE: N.T.S.


24 GA. GI COLLECTION BOX AND DOWN SPOUT PREFINISHED OR PAINTED
CAULK AROUND SCUPPER WITH SEALANT PRIOR TO INSTALLING BOX
SCUPPER, SEE 11/A7.1
6"x6" METAL DOWNSPOUT
1'-2 1/2"
6"
SECTION
1'-8"
9"
6"
SCUPPER BEYOND
8" DIA. OVERFLOW OUTLET W/ HEMMED EDGES
24 GA. GI COLLECTION BOX AND DOWN SPOUT - PREFINISHED OR PAINTED
GI STRAP - PAINTED (CONCEAL ALL JOINTS BEHIND STRAPS)
ELEVATION
NOT USED

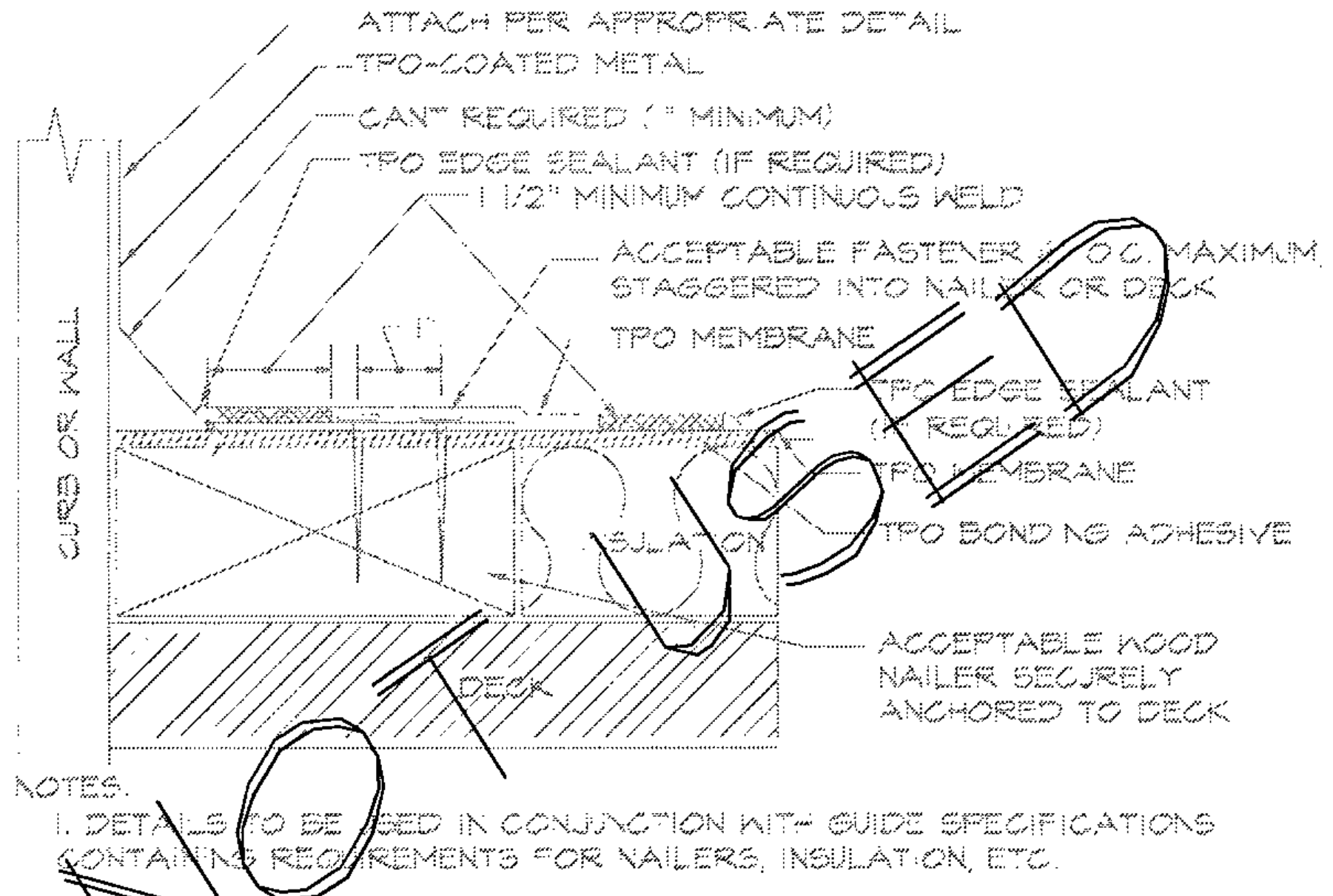
18 CONDUCTOR HEAD SECTION AND ELEVATION

SCALE: 1-1/2" = 1'-0"


ROOFTOP EQUIPMENT
GAS PIPING OR CONDENSATION LINE
ADJUSTS VERTICALLY AND HORIZONTALLY
TYPICAL WALKWAY PAD
SET BOLTS IN SEALANT

10 TYPICAL PIPE ROLLER SUPPORT

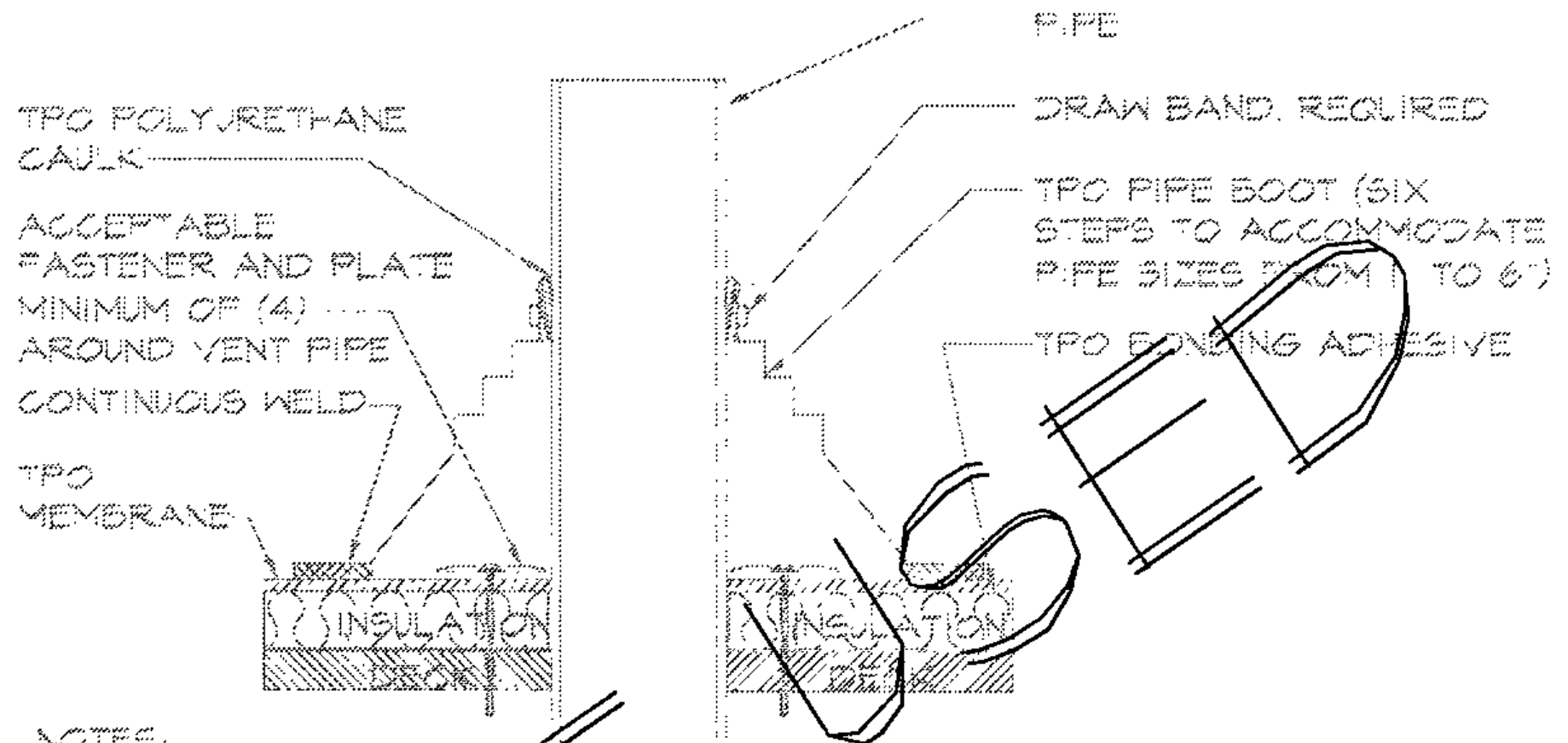
SCALE: N.T.S.


ATTACH PER APPROPRIATE DETAIL
TPO-COATED METAL
CANT REQUIRED (1" MINIMUM)
TPO EDGE SEALANT (IF REQUIRED)
1 1/2" MINIMUM CONTINUOUS WELD
ACCEPTABLE FASTENER 12" O.C. MAXIMUM STAGGERED INTO NAILER OR DECK
TPO MEMBRANE
TPO EDGE SEALANT (IF REQUIRED)
TPO MEMBRANE
INSULATION
TPO BONDING ADHESIVE
ACCEPTABLE WOOD NAILER SECURELY ANCHORED TO DECK
CURB OR WALL
DECK
NOT USED

NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.
3. INSULATION MUST BE COMPATIBLE WITH TPO BONDING ADHESIVE.

06 BASE TIE-IN DETAIL

SCALE: N.T.S.


PIPE
DRAW BAND, REQUIRED
TPO PIPE BOOT (SIX STEPS TO ACCOMMODATE PIPE SIZES FROM 1" TO 6")
TPO BONDING ADHESIVE
TPO POLYURETHANE CAULK
ACCEPTABLE FASTENER AND PLATE MINIMUM OF (4) AROUND VENT PIPE
CONTINUOUS WELD
TPO MEMBRANE
INSULATION
INSULATION
NOT USED

NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD CUT EDGES.
3. PRE-MOLDED VENT PIPE BOOT MUST NOT BE CUT VERTICALLY TO BE INSTALLED.
4. WHEN PRE-MOLDED VENT PIPE BOOT CANNOT BE INSTALLED, USE FIELD-FABRICATED VENT PIPE FLASHING DETAIL.

03 TPO PIPE BOOT DETAIL

SCALE: N.T.S.

REGISTRATION SEAL
No. 2865

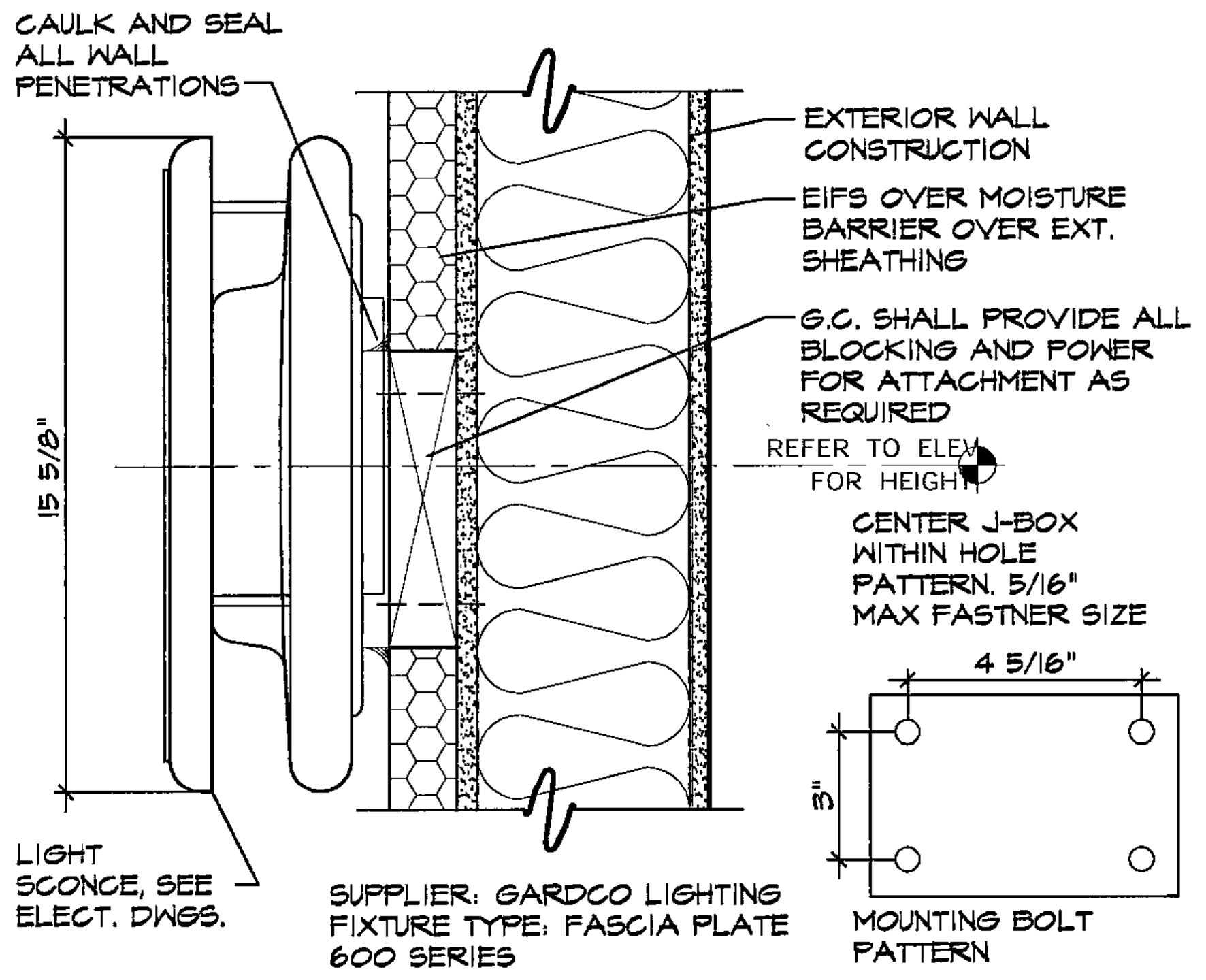
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

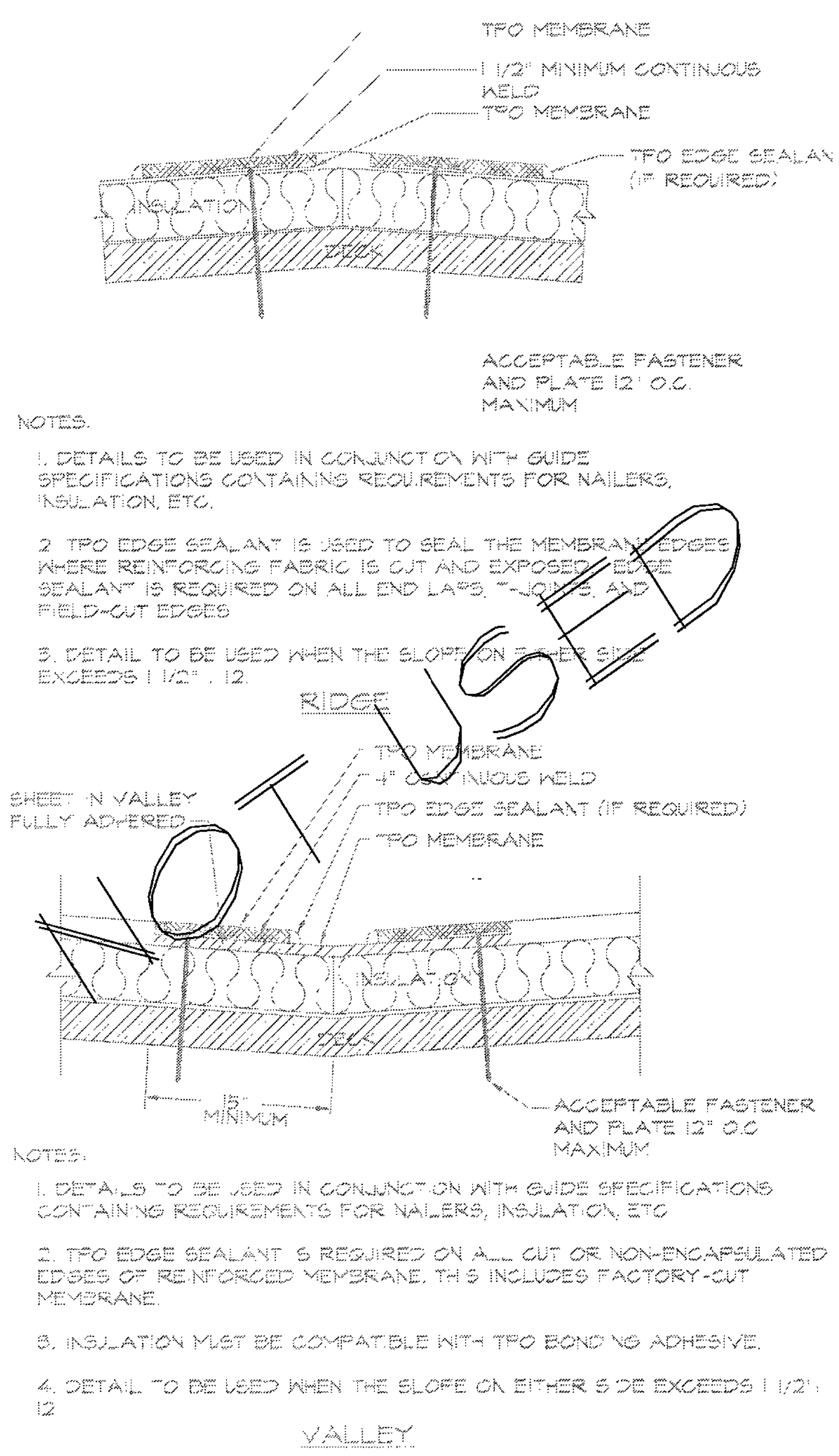
PROJECT NO: 090899
DRAWN BY: XXX
CHECKED BY: XXX
ISSUE DATE: 04/07/10

A7.1


CAULK AND SEAL ALL WALL PENETRATIONS
EXTERIOR WALL CONSTRUCTION
EIFS OVER MOISTURE BARRIER OVER EXT. SHEATHING
G.C. SHALL PROVIDE ALL BLOCKING AND POWER FOR ATTACHMENT AS REQUIRED
REFER TO ELEV. FOR HEIGHT
CENTER J-BOX WITHIN HOLE PATTERN. 5/16" MAX FASTNER SIZE
4 5/16"
3"
15 5/8"
LIGHT SCONCE, SEE ELECT. DWGS.
SUPPLIER: GARDCO LIGHTING FIXTURE TYPE: FASCIA PLATE 600 SERIES
MOUNTING BOLT PATTERN

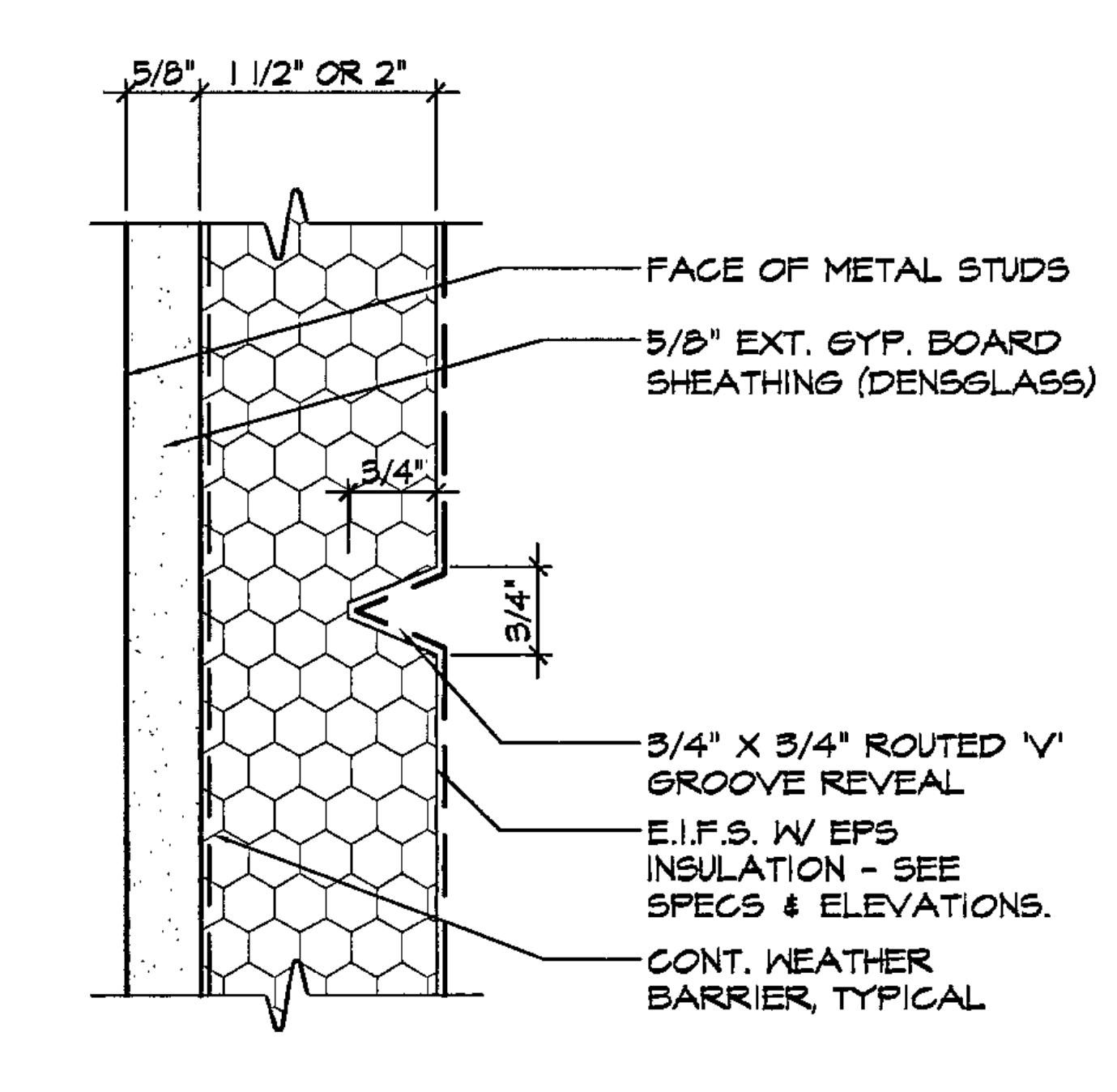
16 TYP. DIAMOND LIGHT DETAIL

SCALE: N.T.S.


TPO MEMBRANE
1 1/2" MINIMUM CONTINUOUS WELD
TPO MEMBRANE
TPO EDGE SEALANT (IF REQUIRED)
INSULATION
DECK
ACCEPTABLE FASTENER AND PLATE 12" O.C. MAXIMUM
NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC.
2. TPO EDGE SEALANT IS USED TO SEAL THE MEMBRANE EDGES WHERE REINFORCING FABRIC IS CUT AND EXPOSED. EDGE SEALANT IS REQUIRED ON ALL END LAPS, T-JOINTS, AND FIELD-CUT EDGES
3. DETAIL TO BE USED WHEN THE SLOPE ON EITHER SIDE EXCEEDS 1 1/2" : 12.
RIDGE
NOT USED
SHEET IN VALLEY FULLY ADHERED
TPO MEMBRANE
4" CONTINUOUS WELD
TPO EDGE SEALANT (IF REQUIRED)
TPO MEMBRANE
INSULATION
DECK
15" MINIMUM
ACCEPTABLE FASTENER AND PLATE 12" O.C. MAXIMUM
NOTES:
1. DETAILS TO BE USED IN CONJUNCTION WITH GUIDE SPECIFICATIONS CONTAINING REQUIREMENTS FOR NAILERS, INSULATION, ETC
2. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY-CUT MEMBRANE.
3. INSULATION MUST BE COMPATIBLE WITH TPO BONDING ADHESIVE.
4. DETAIL TO BE USED WHEN THE SLOPE ON EITHER SIDE EXCEEDS 1 1/2" : 12
VALLEY

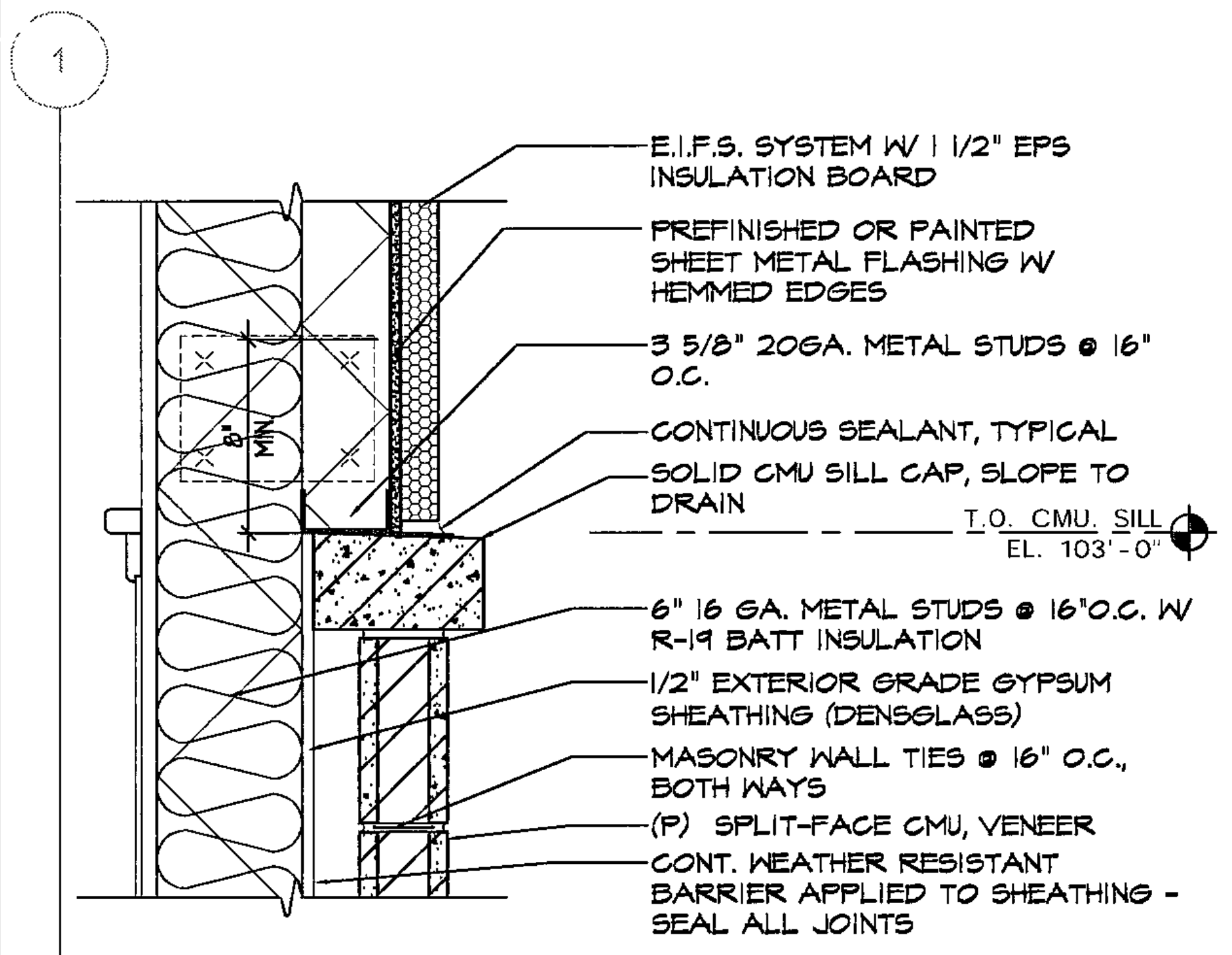
13 SLOPE (RIDGE & VALLEY) ROOF DETAILS

SCALE: N.T.S.


5/8"
1 1/2" OR 2"
FACE OF METAL STUDS
5/8" EXT. GYP. BOARD SHEATHING (DENSGLASS)
3/4"
3/4"
3/4" X 3/4" ROUTED 'V' GROOVE REVEAL
E.I.F.S. W/ EPS INSULATION - SEE SPECS & ELEVATIONS.
CONT. WEATHER BARRIER, TYPICAL

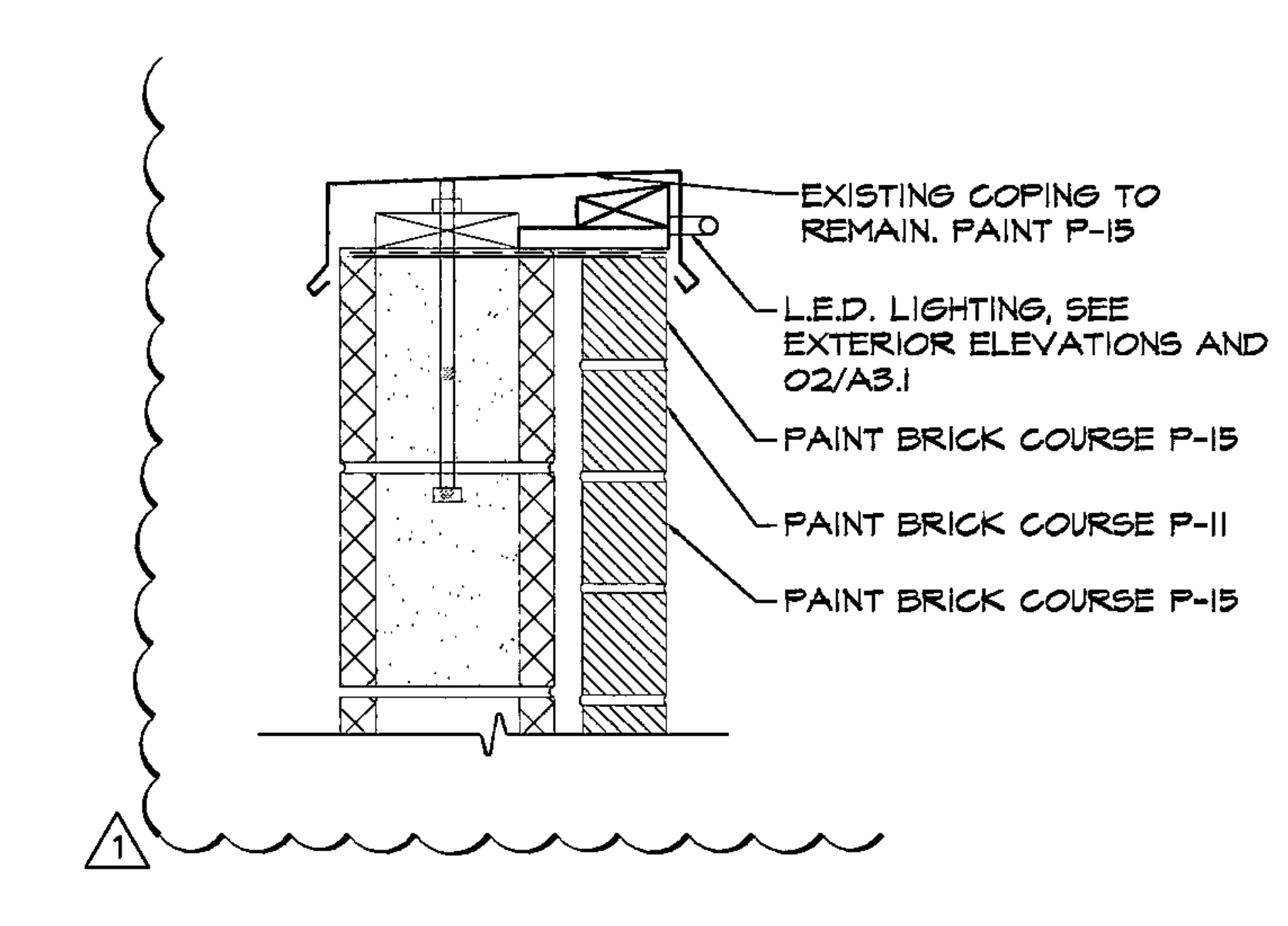
09 TYPICAL REVEAL DETAIL

SCALE: N.T.S.


1
E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD
PREFINISHED OR PAINTED SHEET METAL FLASHING W/ HEMMED EDGES
3 5/8" 20GA. METAL STUDS @ 16" O.C.
CONTINUOUS SEALANT, TYPICAL
SOLID CMU SILL CAP, SLOPE TO DRAIN
8" MIN.
T.O. CMU. SILL EL. 103'-0"
6" 16 GA. METAL STUDS @ 16"O.C. W/ R-19 BATT INSULATION
1/2" EXTERIOR GRADE GYPSUM SHEATHING (DENSGLASS)
MASONRY WALL TIES @ 16" O.C., BOTH WAYS
(P) SPLIT-FACE CMU, VENEER
CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS

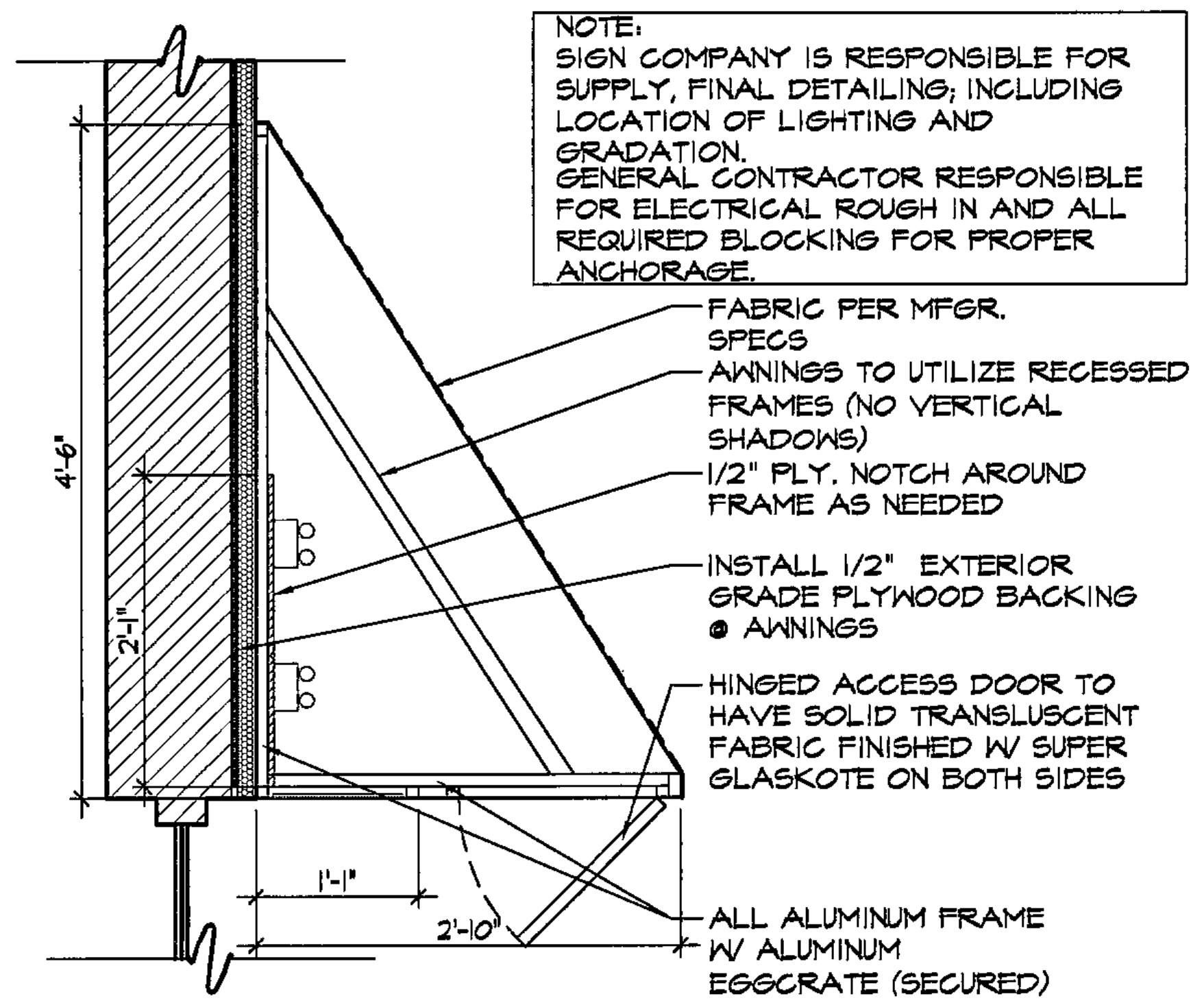
05 BASE FLASHING DETAIL

SCALE: 1-1/2" = 1'-0"


EXISTING COPING TO REMAIN. PAINT P-15
L.E.D. LIGHTING, SEE EXTERIOR ELEVATIONS AND 02/A3.1
PAINT BRICK COURSE P-15
PAINT BRICK COURSE P-11
PAINT BRICK COURSE P-15
1

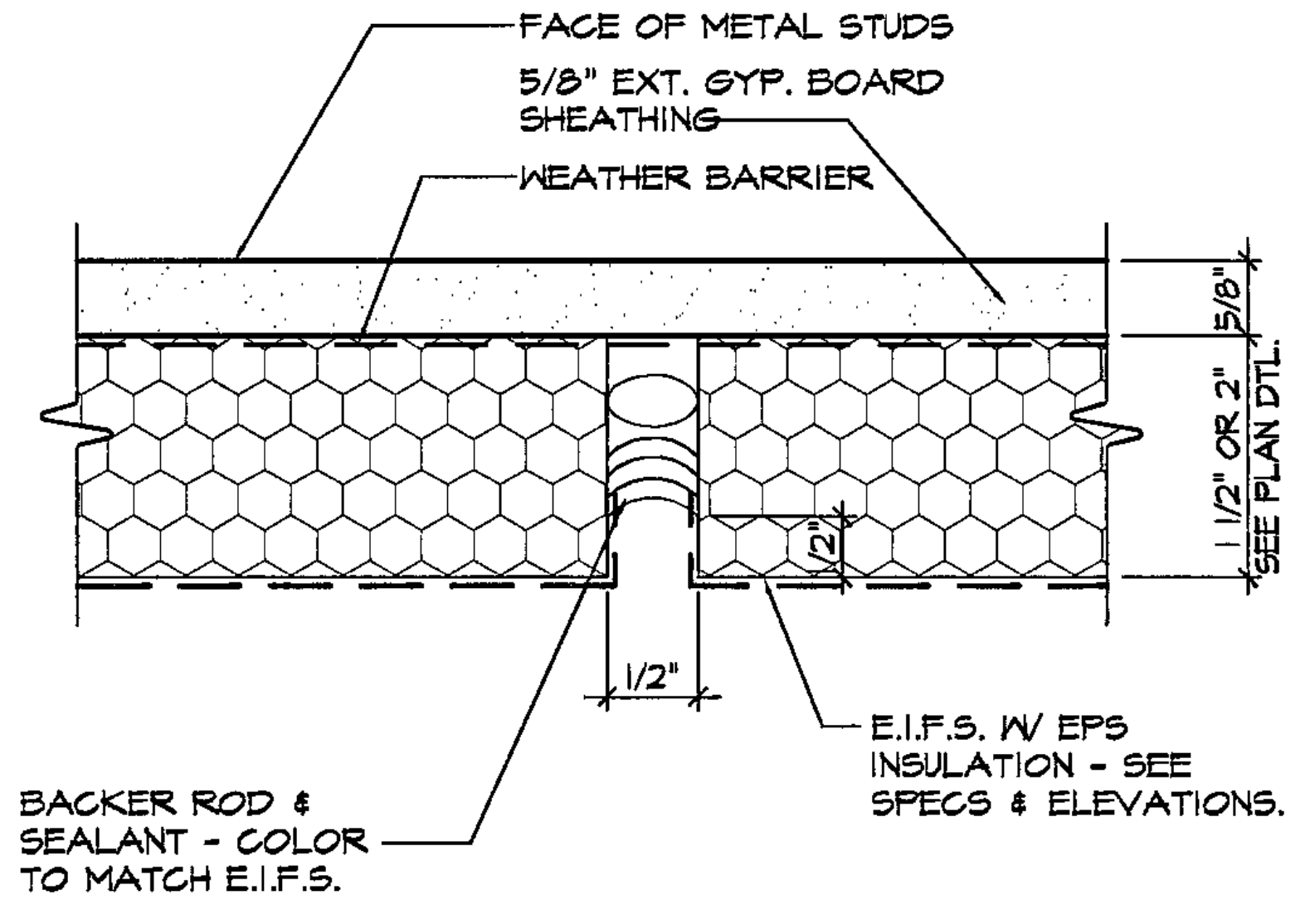
01 PARAPET DETAIL

SCALE: 1-1/2" = 1'-0"


NOTE:
SIGN COMPANY IS RESPONSIBLE FOR SUPPLY, FINAL DETAILING; INCLUDING LOCATION OF LIGHTING AND GRADATION.
GENERAL CONTRACTOR RESPONSIBLE FOR ELECTRICAL ROUGH IN AND ALL REQUIRED BLOCKING FOR PROPER ANCHORAGE.
FABRIC PER MFGR. SPECS
AWNINGS TO UTILIZE RECESSED FRAMES (NO VERTICAL SHADOWS)
1/2" PLY. NOTCH AROUND FRAME AS NEEDED
INSTALL 1/2" EXTERIOR GRADE PLYWOOD BACKING @ AWNINGS
HINGED ACCESS DOOR TO HAVE SOLID TRANSLUSCENT FABRIC FINISHED W/ SUPER GLASKOTE ON BOTH SIDES
4'-6"
2'-1"
1'-1"
2'-10"
ALL ALUMINUM FRAME W/ ALUMINUM EGGCRATE (SECURED)

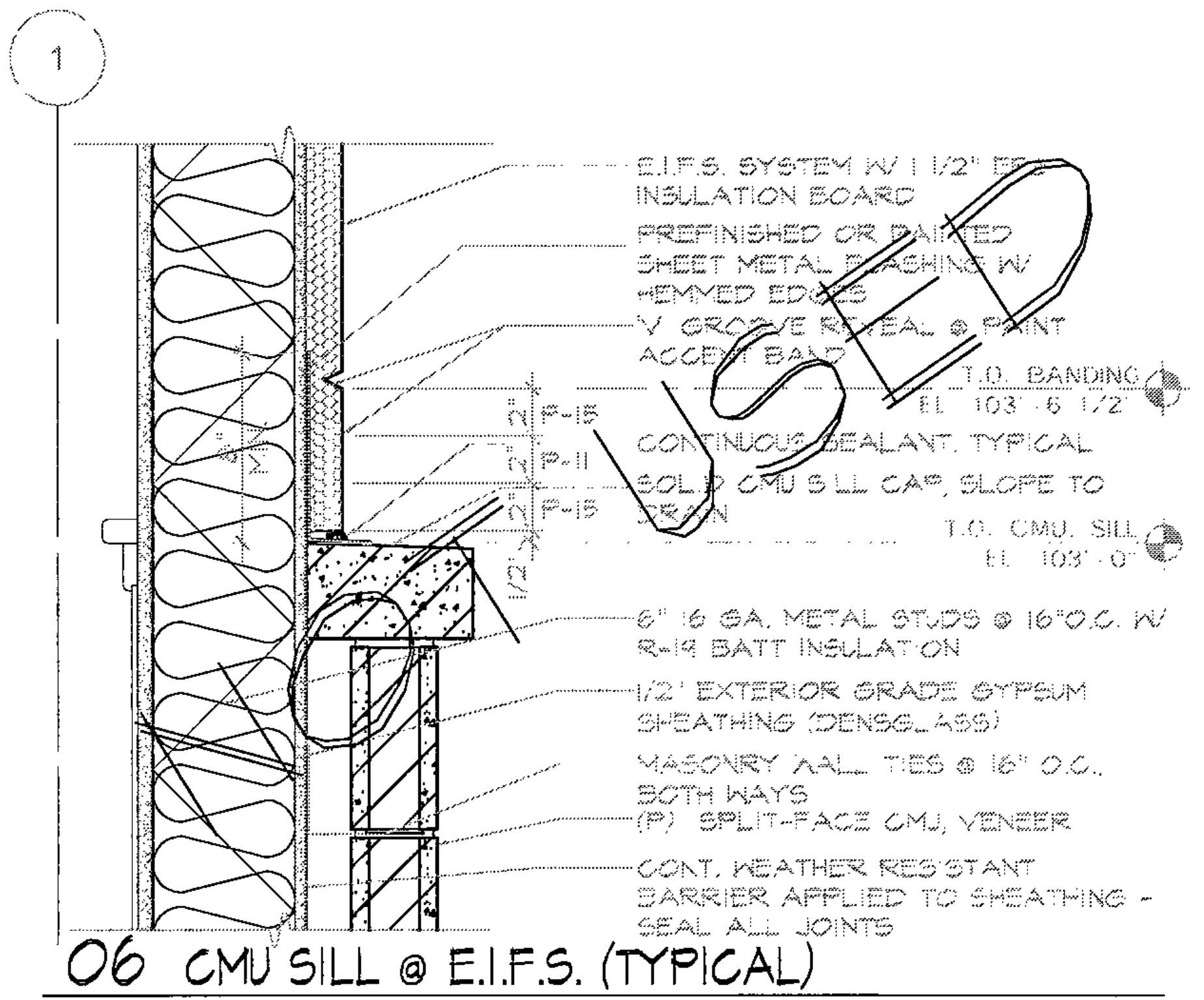
17 AWNING SECTION

SCALE: 3/4" = 1'-0"


FACE OF METAL STUDS
5/8" EXT. GYP. BOARD SHEATHING
WEATHER BARRIER
5/8"
1 1/2" OR 2" SEE PLAN DTL.
1/2"
1/2"
BACKER ROD & SEALANT - COLOR TO MATCH E.I.F.S.
E.I.F.S. W/ EPS INSULATION - SEE SPECS & ELEVATIONS.

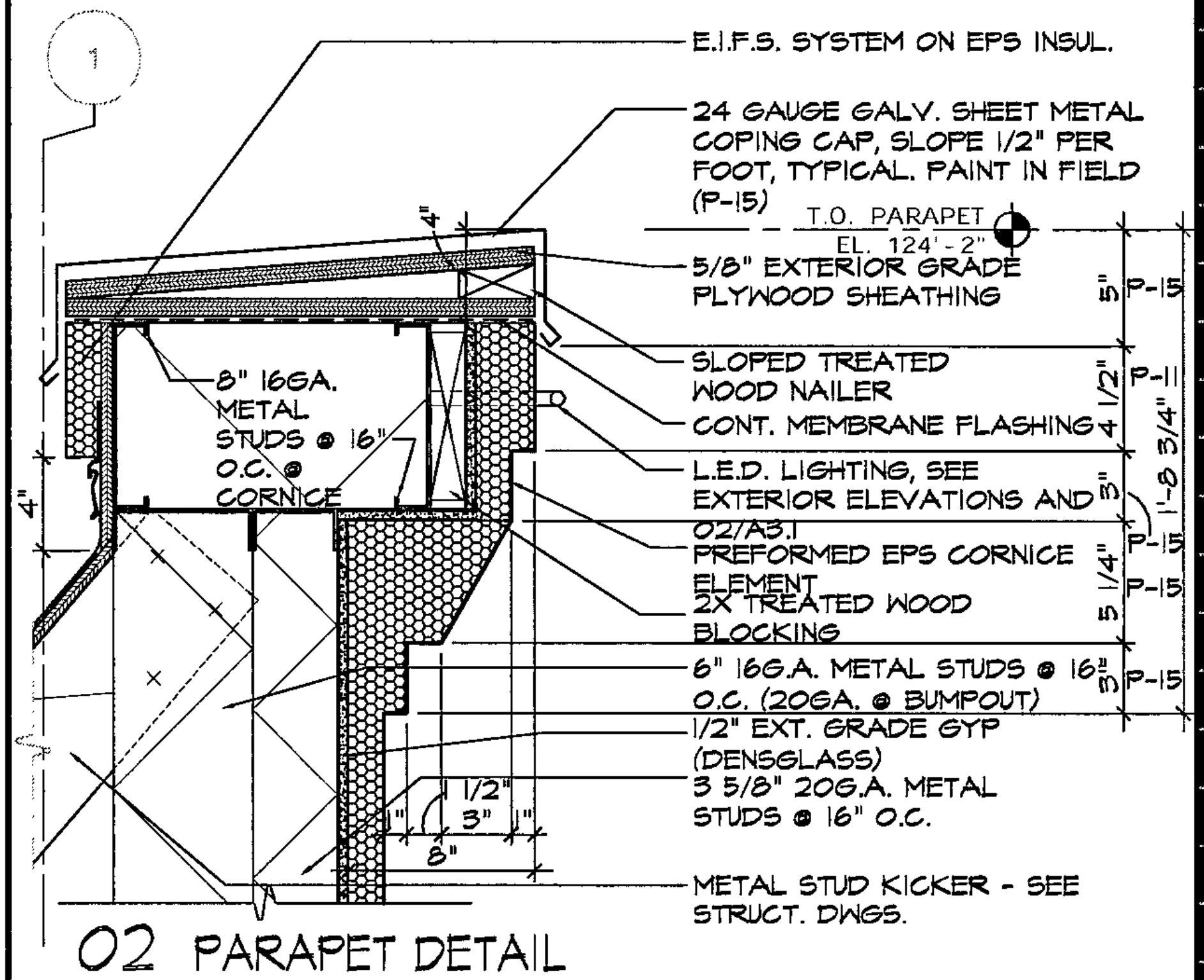
10 TYPICAL E.I.F.S. C.J. DETAIL

SCALE: N.T.S.


1
E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD
PREFINISHED OR PAINTED SHEET METAL FLASHING W/ HEMMED EDGES
'V' GROOVE REVEAL @ PAINT ACCENT BAND
T.O. BANDING EL. 103'-6 1/2"
P-15
P-11
P-15
2"
2"
2"
1/2"
CONTINUOUS SEALANT, TYPICAL
SOLID CMU SILL CAP, SLOPE TO DRAIN
T.O. CMU. SILL EL. 103'-0"
6" 16 GA. METAL STUDS @ 16"O.C. W/ R-19 BATT INSULATION
1/2" EXTERIOR GRADE GYPSUM SHEATHING (DENSGLASS)
MASONRY WALL TIES @ 16" O.C., BOTH WAYS
(P) SPLIT-FACE CMU, VENEER
CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS
NOT USED

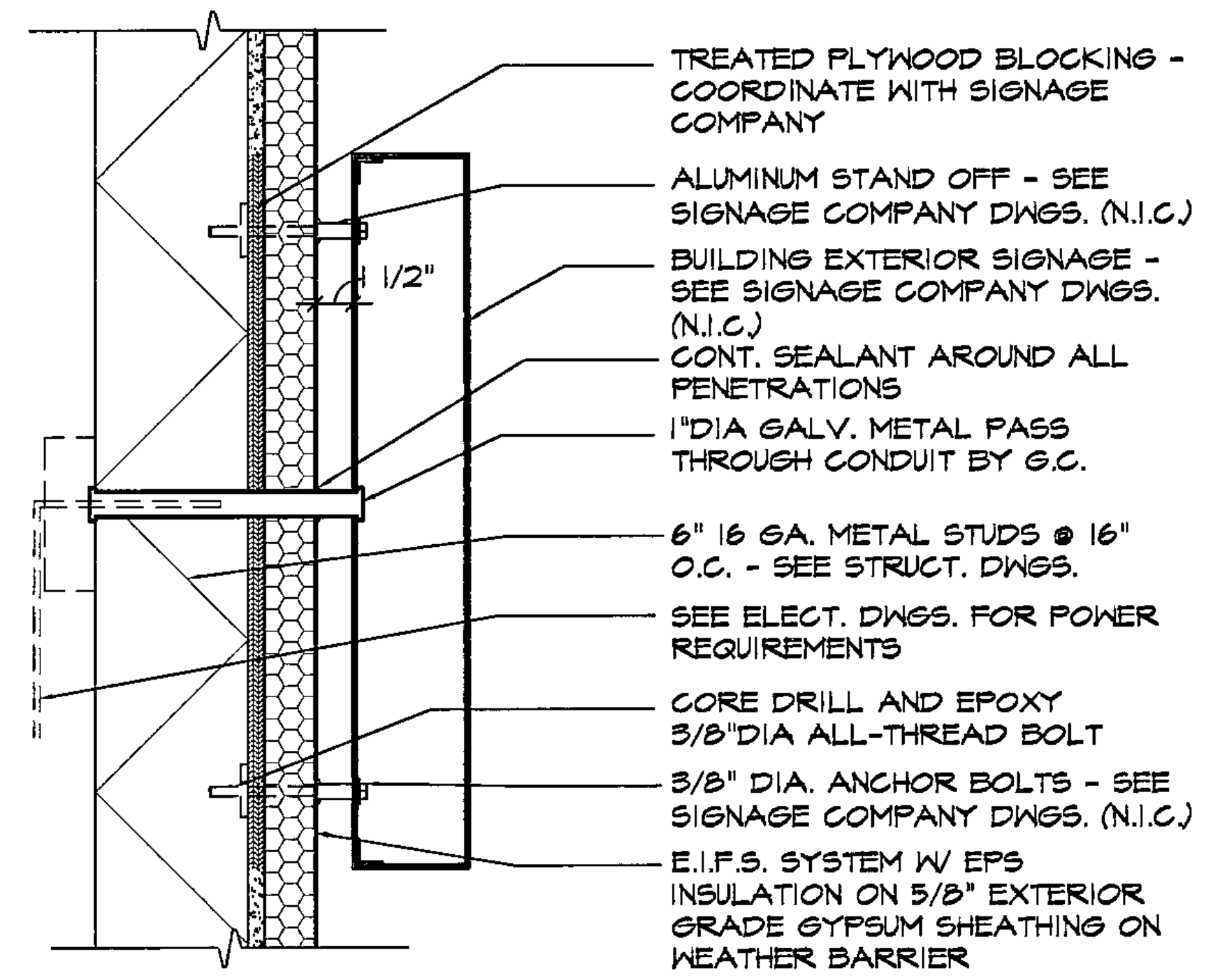
06 CMU SILL @ E.I.F.S. (TYPICAL)

SCALE: 1-1/2" = 1'-0"


1
E.I.F.S. SYSTEM ON EPS INSUL.
24 GAUGE GALV. SHEET METAL COPING CAP, SLOPE 1/2" PER FOOT, TYPICAL. PAINT IN FIELD (P-15)
T.O. PARAPET EL. 124'-2"
4"
5/8" EXTERIOR GRADE PLYWOOD SHEATHING
8" 16GA. METAL STUDS @ 16" O.C. @ CORNICE
SLOPED TREATED WOOD NAILER
CONT. MEMBRANE FLASHING
L.E.D. LIGHTING, SEE EXTERIOR ELEVATIONS AND 02/A3.1
PREFORMED EPS CORNICE ELEMENT
2X TREATED WOOD BLOCKING
6" 16G.A. METAL STUDS @ 16" O.C. (20GA. @ BUMPOUT)
1/2" EXT. GRADE GYP (DENSGLASS)
3 5/8" 20G.A. METAL STUDS @ 16" O.C.
1 1/2"
1"
3"
1"
8"
4"
METAL STUD KICKER - SEE STRUCT. DWGS.
5"
4 1/2"
3"
5 1/4"
3"
1'-8 3/4"
P-15
P-11
P-15
P-15
P-15

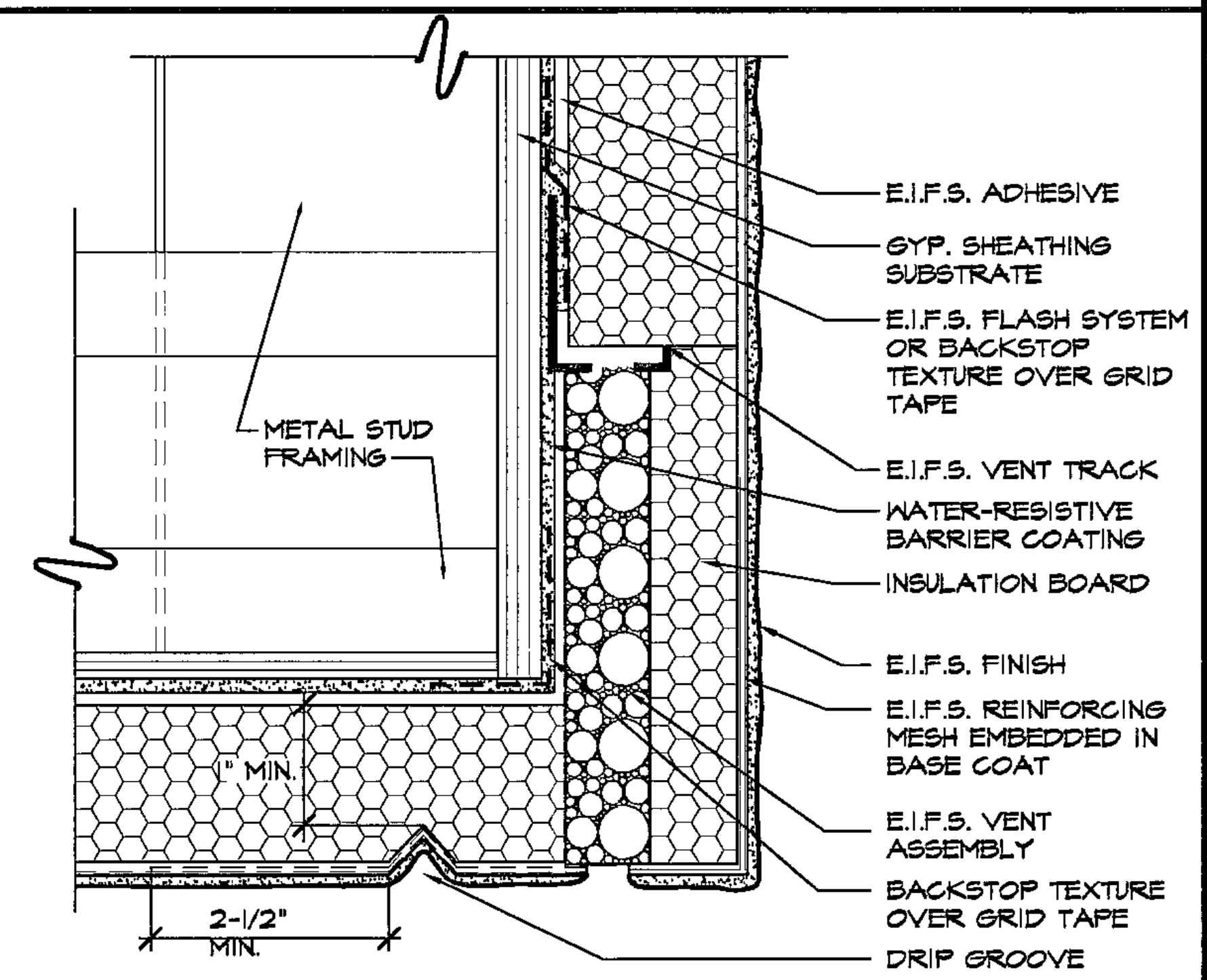
02 PARAPET DETAIL

SCALE: 1-1/2" = 1'-0"


TREATED PLYWOOD BLOCKING - COORDINATE WITH SIGNAGE COMPANY
ALUMINUM STAND OFF - SEE SIGNAGE COMPANY DWGS. (N.I.C.)
BUILDING EXTERIOR SIGNAGE - SEE SIGNAGE COMPANY DWGS. (N.I.C.)
1 1/2"
CONT. SEALANT AROUND ALL PENETRATIONS
1"DIA GALV. METAL PASS THROUGH CONDUIT BY G.C.
6" 16 GA. METAL STUDS @ 16" O.C. - SEE STRUCT. DWGS.
SEE ELECT. DWGS. FOR POWER REQUIREMENTS
CORE DRILL AND EPOXY 3/8"DIA ALL-THREAD BOLT
3/8" DIA. ANCHOR BOLTS - SEE SIGNAGE COMPANY DWGS. (N.I.C.)
E.I.F.S. SYSTEM W/ EPS INSULATION ON 5/8" EXTERIOR GRADE GYPSUM SHEATHING ON WEATHER BARRIER

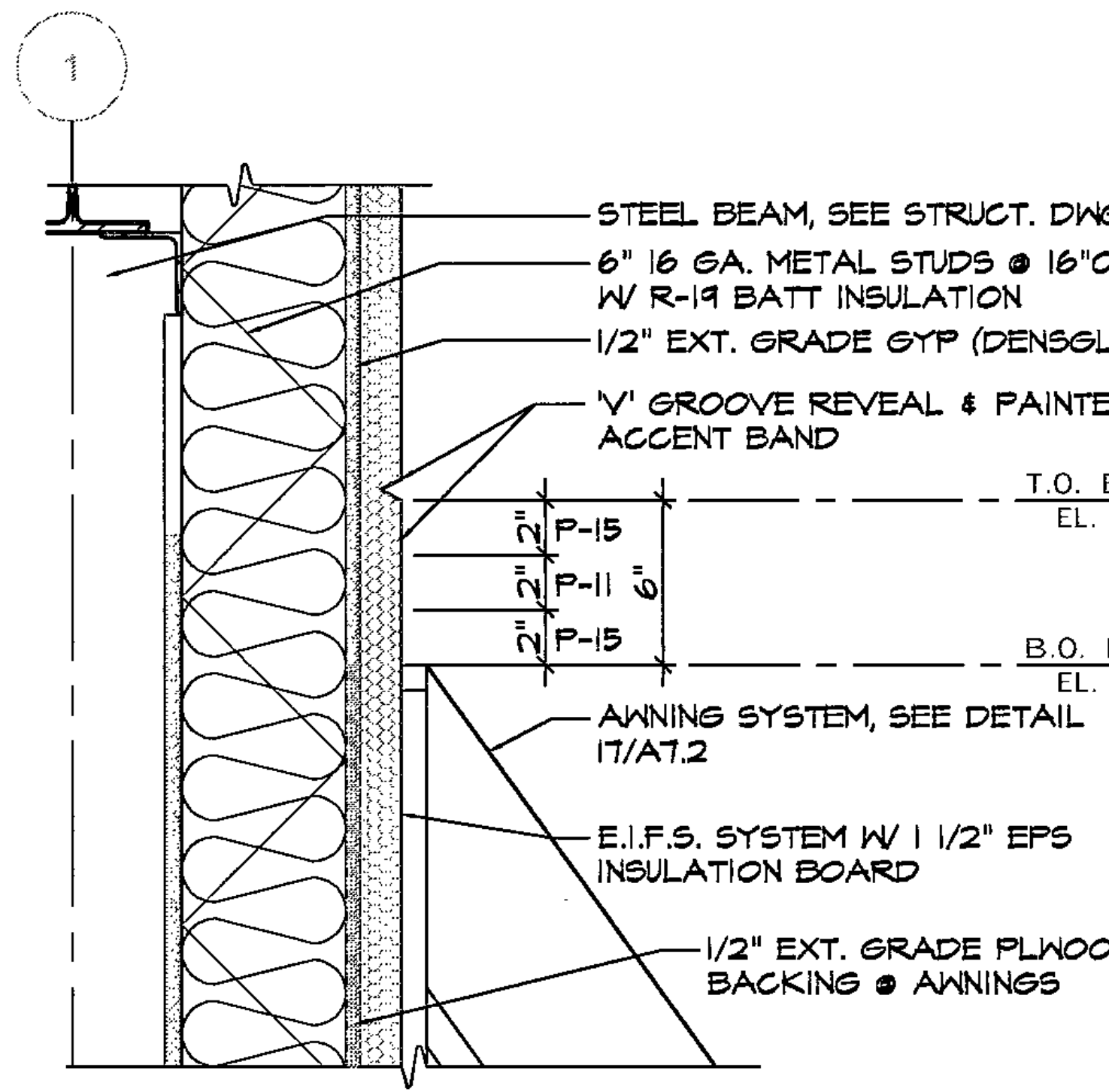
18 EXT. SIGN MOUNTING DETAIL

SCALE: 1-1/2" = 1'-0"


E.I.F.S. ADHESIVE
GYP. SHEATHING SUBSTRATE
E.I.F.S. FLASH SYSTEM OR BACKSTOP TEXTURE OVER GRID TAPE
METAL STUD FRAMING
E.I.F.S. VENT TRACK
WATER-RESISTIVE BARRIER COATING
INSULATION BOARD
E.I.F.S. FINISH
E.I.F.S. REINFORCING MESH EMBEDDED IN BASE COAT
1" MIN.
E.I.F.S. VENT ASSEMBLY
BACKSTOP TEXTURE OVER GRID TAPE
2-1/2" MIN.
DRIP GROOVE

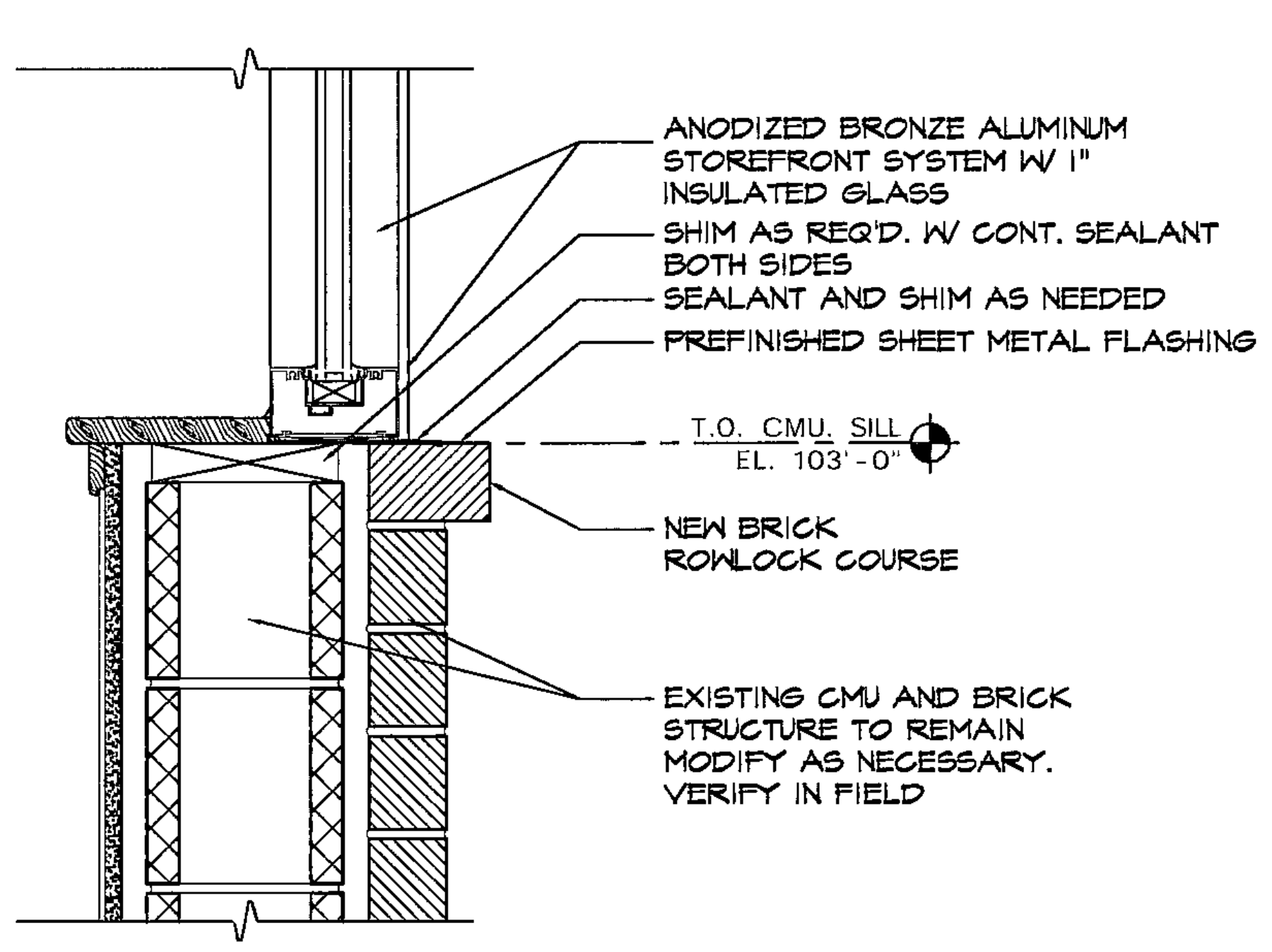
14 TYP. E.I.F.S. DRIP EDGE DETAIL

SCALE: N.T.S.


1
STEEL BEAM, SEE STRUCT. DWGS.
6" 16 GA. METAL STUDS @ 16"O.C. W/ R-19 BATT INSULATION
1/2" EXT. GRADE GYP (DENSGLASS)
'V' GROOVE REVEAL & PAINTED ACCENT BAND
T.O. BANDING EL. 114'-6"
2" P-15
2" P-11
2" P-15
6"
B.O. BANDING EL. 114'-0"
AWNING SYSTEM, SEE DETAIL 17/A7.2
E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD
1/2" EXT. GRADE PLWOOD BACKING @ AWNINGS

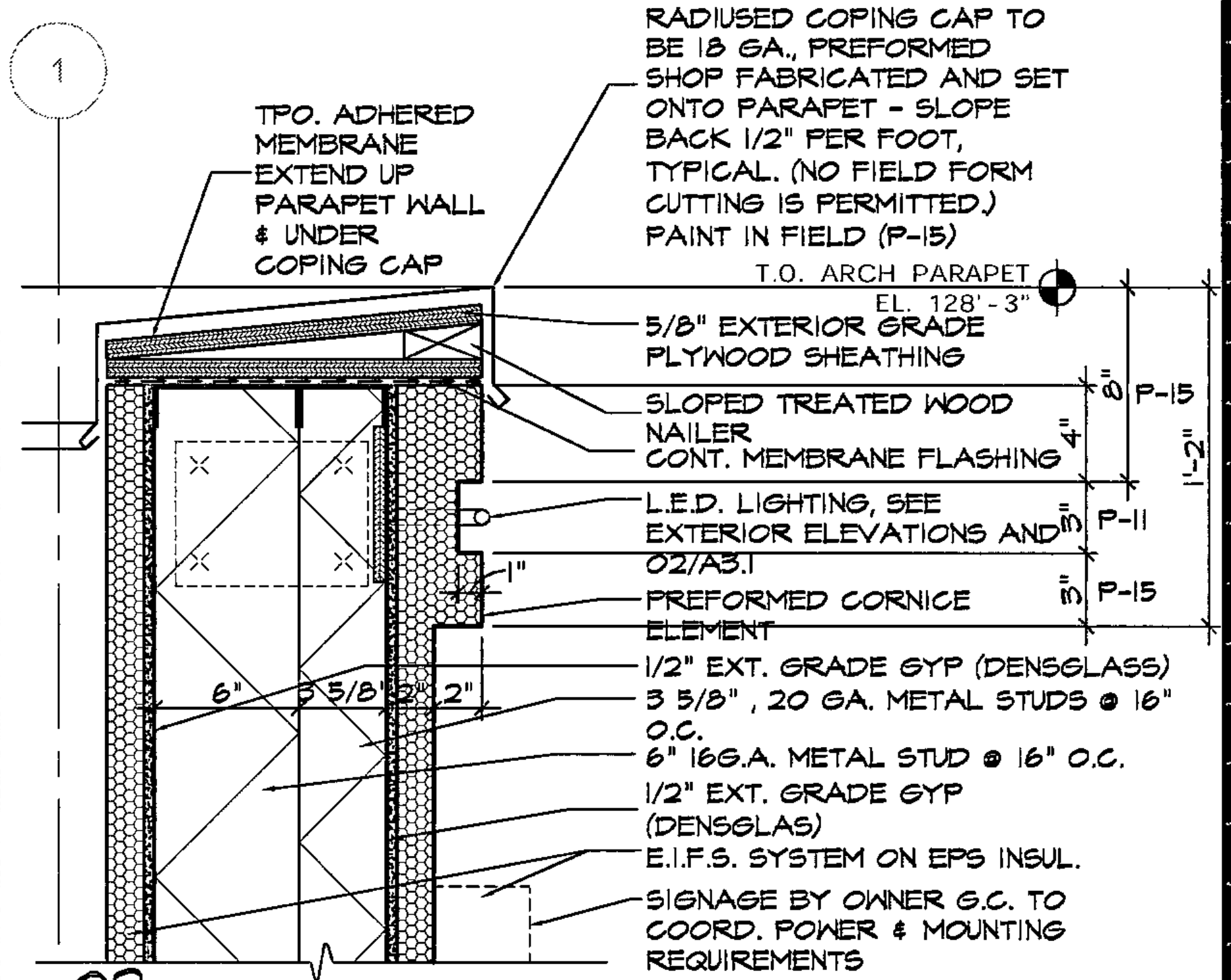
11 TYPICAL EXT. BANDING DETAIL

SCALE: 1-1/2" = 1'-0"


ANODIZED BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS
SHIM AS REQ'D. W/ CONT. SEALANT BOTH SIDES
SEALANT AND SHIM AS NEEDED
PREFINISHED SHEET METAL FLASHING
T.O. CMU. SILL EL. 103'-0"
NEW BRICK ROWLOCK COURSE
EXISTING CMU AND BRICK STRUCTURE TO REMAIN MODIFY AS NECESSARY. VERIFY IN FIELD

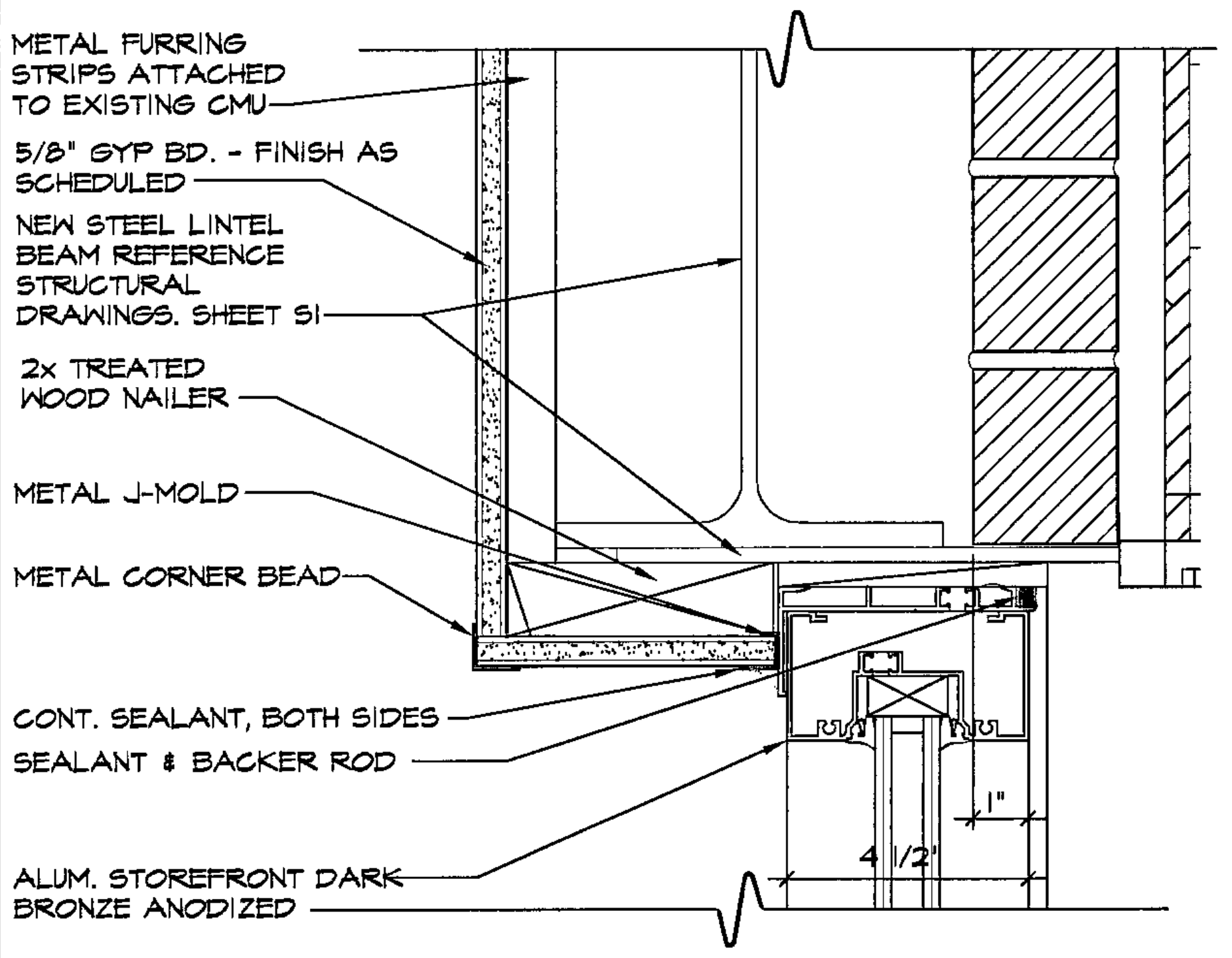
07 BRICK SILL @ WINDOW

SCALE: 1-1/2" = 1'-0"


1
TPO. ADHERED MEMBRANE EXTEND UP PARAPET WALL & UNDER COPING CAP
RADIUSED COPING CAP TO BE 18 GA., PREFORMED SHOP FABRICATED AND SET ONTO PARAPET - SLOPE BACK 1/2" PER FOOT, TYPICAL. (NO FIELD FORM CUTTING IS PERMITTED.) PAINT IN FIELD (P-15)
T.O. ARCH PARAPET EL. 128'-3"
5/8" EXTERIOR GRADE PLYWOOD SHEATHING
SLOPED TREATED WOOD NAILER
CONT. MEMBRANE FLASHING
L.E.D. LIGHTING, SEE EXTERIOR ELEVATIONS AND 02/A3.1
PREFORMED CORNICE ELEMENT
1"
1/2" EXT. GRADE GYP (DENSGLASS)
3 5/8" , 20 GA. METAL STUDS @ 16" O.C.
6" 16G.A. METAL STUD @ 16" O.C.
1/2" EXT. GRADE GYP (DENSGLAS)
E.I.F.S. SYSTEM ON EPS INSUL.
SIGNAGE BY OWNER G.C. TO COORD. POWER & MOUNTING REQUIREMENTS
6"
3 5/8"
2"
2"
8"
4"
3"
3"
1'-2"
P-15
P-11
P-15

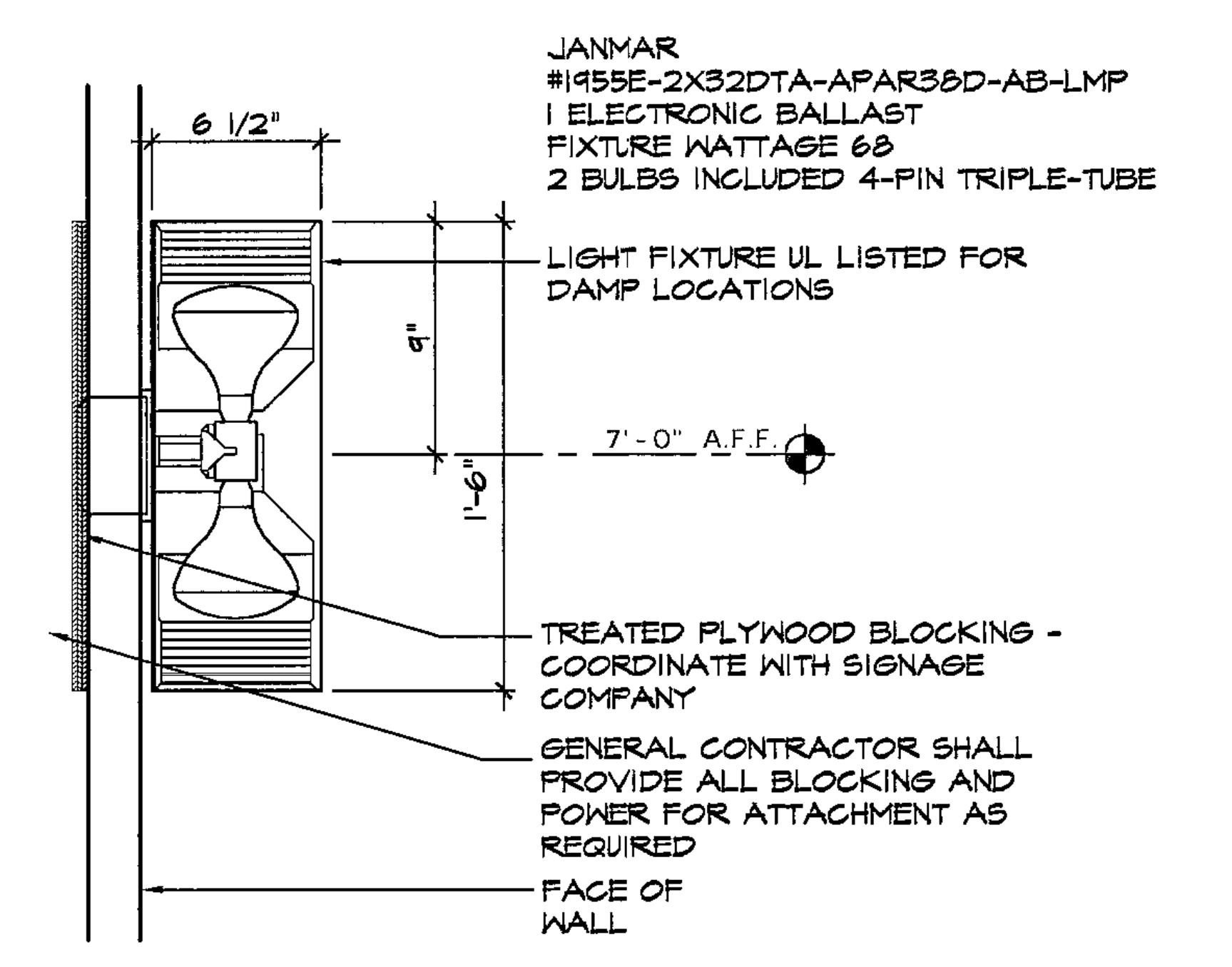
03 PARAPET DETAIL

SCALE: 1-1/2" = 1'-0"


METAL FURRING STRIPS ATTACHED TO EXISTING CMU
5/8" GYP BD. - FINISH AS SCHEDULED
NEW STEEL LINTEL BEAM REFERENCE STRUCTURAL DRAWINGS. SHEET S1
2x TREATED WOOD NAILER
METAL J-MOLD
METAL CORNER BEAD
CONT. SEALANT, BOTH SIDES
SEALANT & BACKER ROD
ALUM. STOREFRONT DARK BRONZE ANODIZED
1"
4 1/2"

19 EXTERIOR STOREFRONT HEAD/JAMB

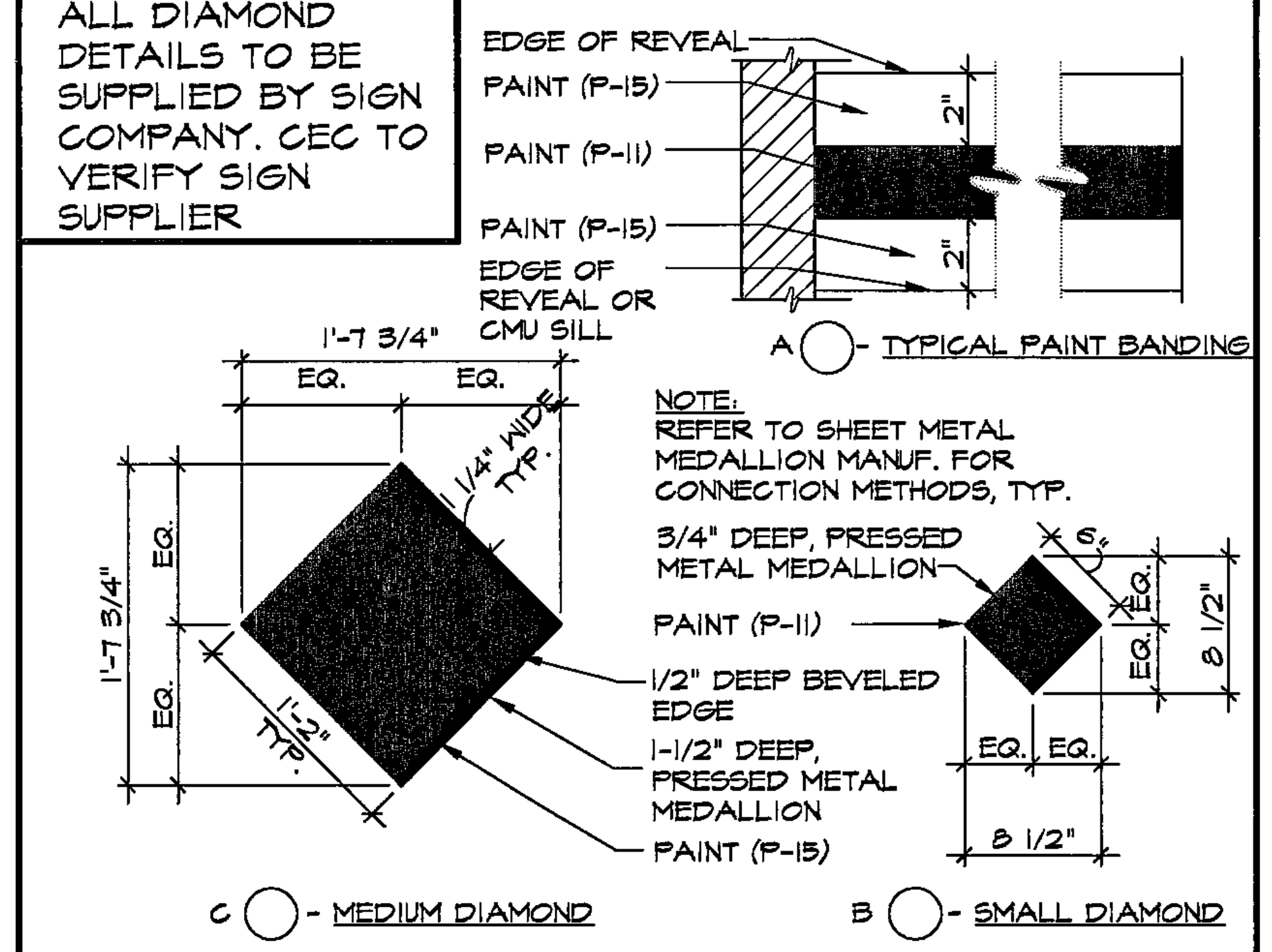
SCALE: 3" = 1'-0"


JANMAR #1955E-2X32DTA-APAR38D-AB-LMP 1 ELECTRONIC BALLAST FIXTURE WATTAGE 68 2 BULBS INCLUDED 4-PIN TRIPLE-TUBE
6 1/2"
LIGHT FIXTURE UL LISTED FOR DAMP LOCATIONS
9"
1'-6"
7'-0" A.F.F.
TREATED PLYWOOD BLOCKING - COORDINATE WITH SIGNAGE COMPANY
GENERAL CONTRACTOR SHALL PROVIDE ALL BLOCKING AND POWER FOR ATTACHMENT AS REQUIRED
FACE OF WALL

15 EXTERIOR WALL SCONCE

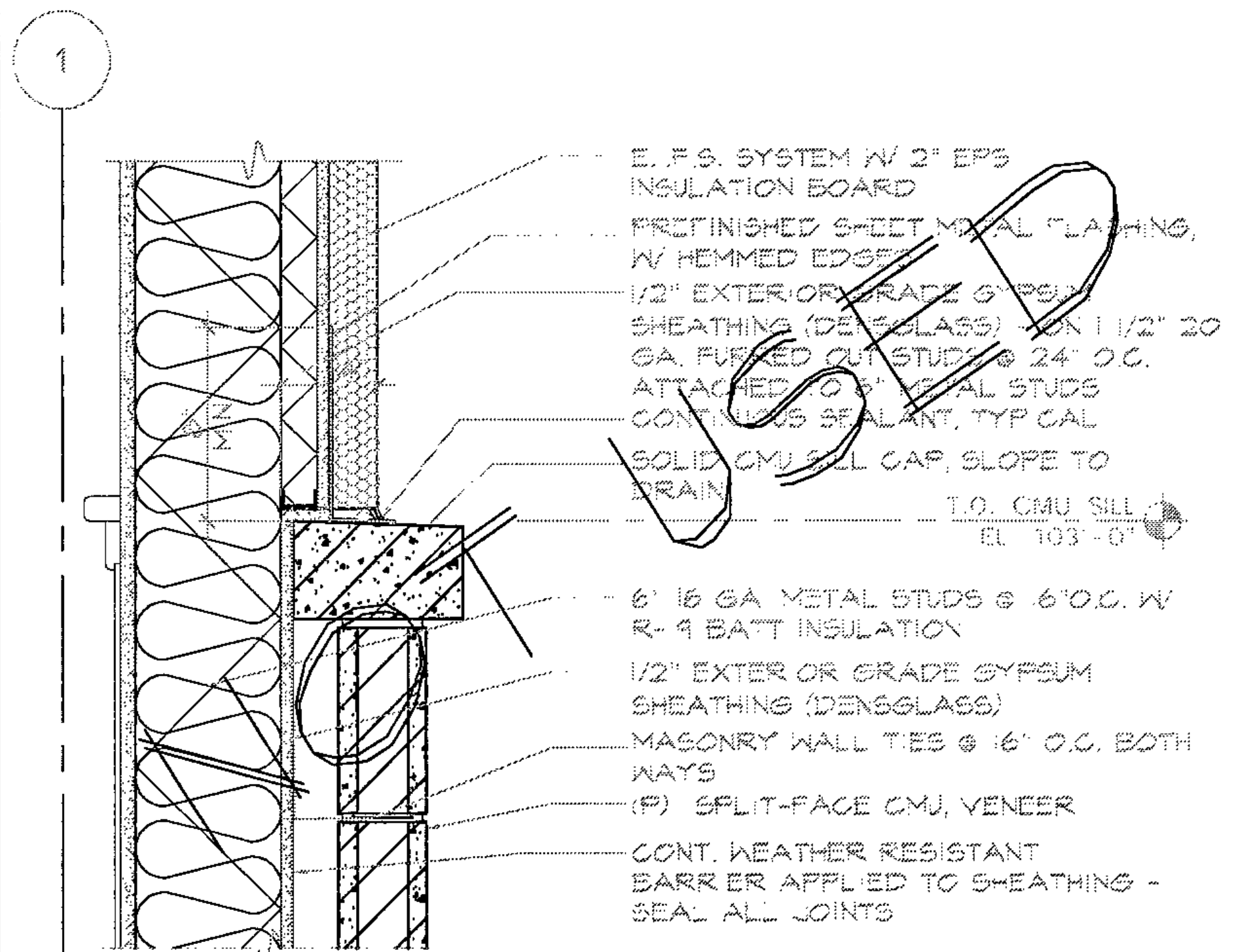
SCALE: 1-1/2" = 1'-0"

ALL DIAMOND DETAILS TO BE SUPPLIED BY SIGN COMPANY. CEC TO VERIFY SIGN SUPPLIER



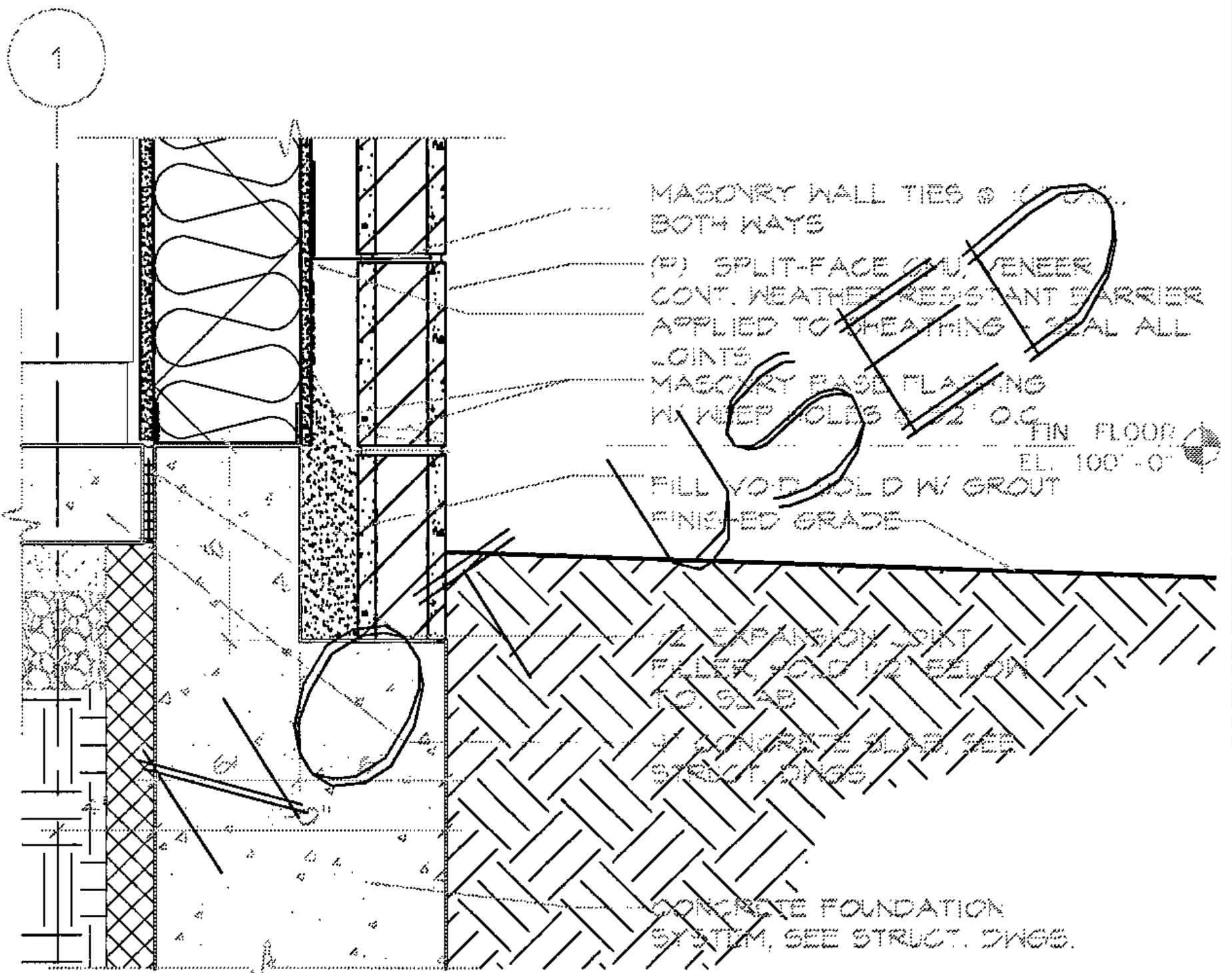
12 EXT. DIAMONDS & (P) BANDING DTL.

SCALE: 1" = 1'-0"


1
E.I.F.S. SYSTEM W/ 2" EPS INSULATION BOARD
PREFINISHED SHEET METAL FLASHING, W/ HEMMED EDGES
1/2" EXTERIOR GRADE GYPSUM SHEATHING (DENSGLASS) ON 1 1/2" 20 GA. FURRED OUT STUDS @ 24" O.C. ATTACHED TO 6" METAL STUDS
CONTINUOUS SEALANT, TYPICAL
SOLID CMU SILL CAP, SLOPE TO DRAIN
T.O. CMU SILL EL. 103'-0"
8" MIN.
6" 16 GA. METAL STUDS @ 16"O.C. W/ R-19 BATT INSULATION
1/2" EXTERIOR GRADE GYPSUM SHEATHING (DENSGLASS)
MASONRY WALL TIES @ 16" O.C. BOTH WAYS
(P) SPLIT-FACE CMU, VENEER
CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS
NOT USED

08 CMU SILL @ E.I.F.S. BUMPOUTS

SCALE: 1-1/2" = 1'-0"


1
MASONRY WALL TIES @ 16" O.C., BOTH WAYS
(P) SPLIT-FACE CMU, VENEER
CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS
MASONRY BASE FLASHING W/ WEEP HOLES @ 32" O.C.
FIN. FLOOR EL. 100'-0"
FILL VOID SOLID W/ GROUT
FINISHED GRADE
1/2" EXPANSION JOINT FILLER, HOLD 1/2" BELOW T.O. SLAB
4" CONCRETE SLAB, SEE STRUCT. DWGS.
CONCRETE FOUNDATION SYSTEM, SEE STRUCT. DWGS.
NOT USED

04 BASE FLASHING DETAIL

SCALE: 1-1/2" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

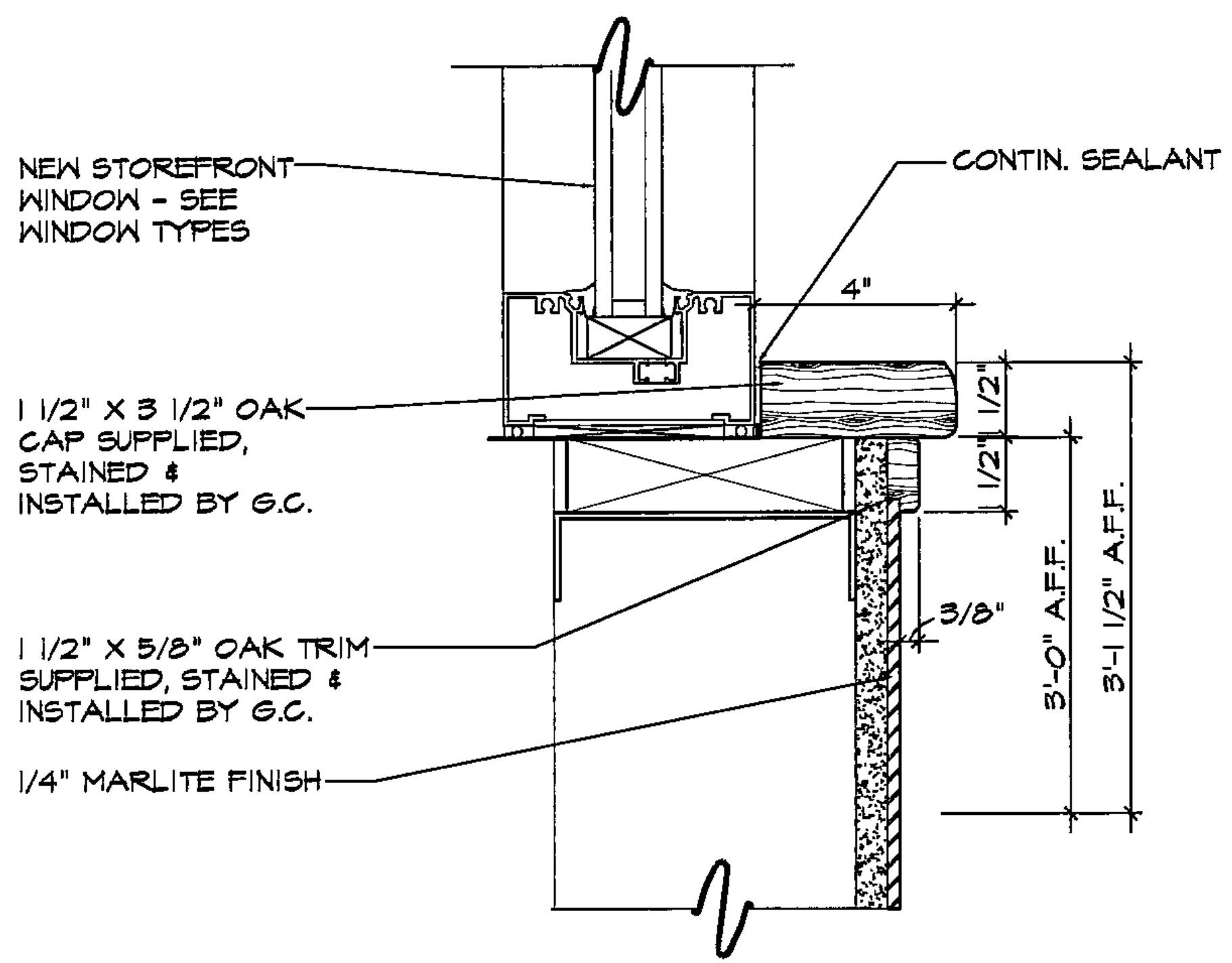
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: XXX
CHECKED BY: XXX
ISSUE DATE:
04/07/10

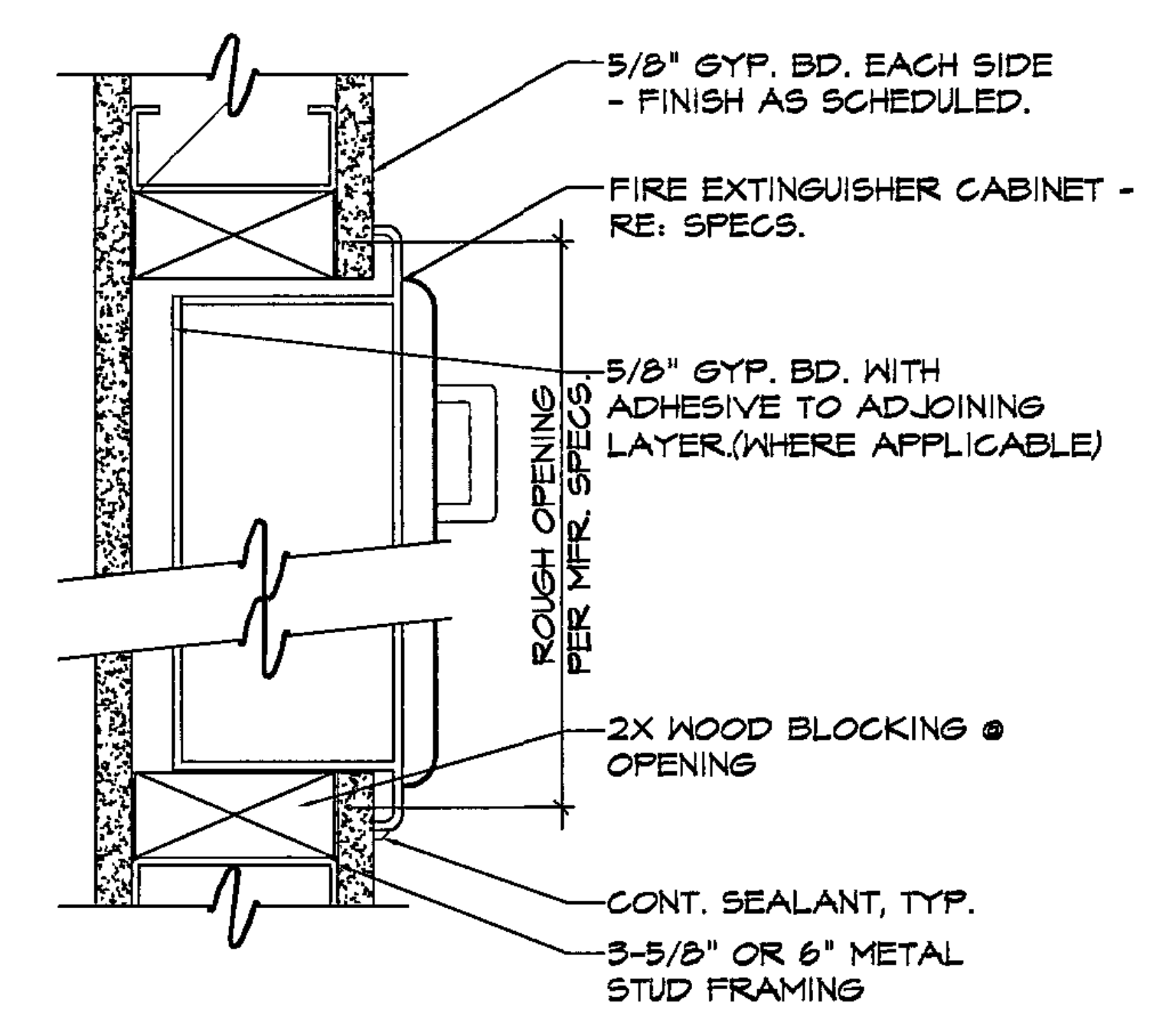
EXTERIOR DETAILS

A7.2


NEW STOREFRONT WINDOW - SEE WINDOW TYPES
CONTIN. SEALANT
4"
1 1/2" X 3 1/2" OAK CAP SUPPLIED, STAINED & INSTALLED BY G.C.
1/2"
1/2"
3'-0" A.F.F.
3'-1 1/2" A.F.F.
3/8"
1 1/2" X 5/8" OAK TRIM SUPPLIED, STAINED & INSTALLED BY G.C.
1/4" MARLITE FINISH

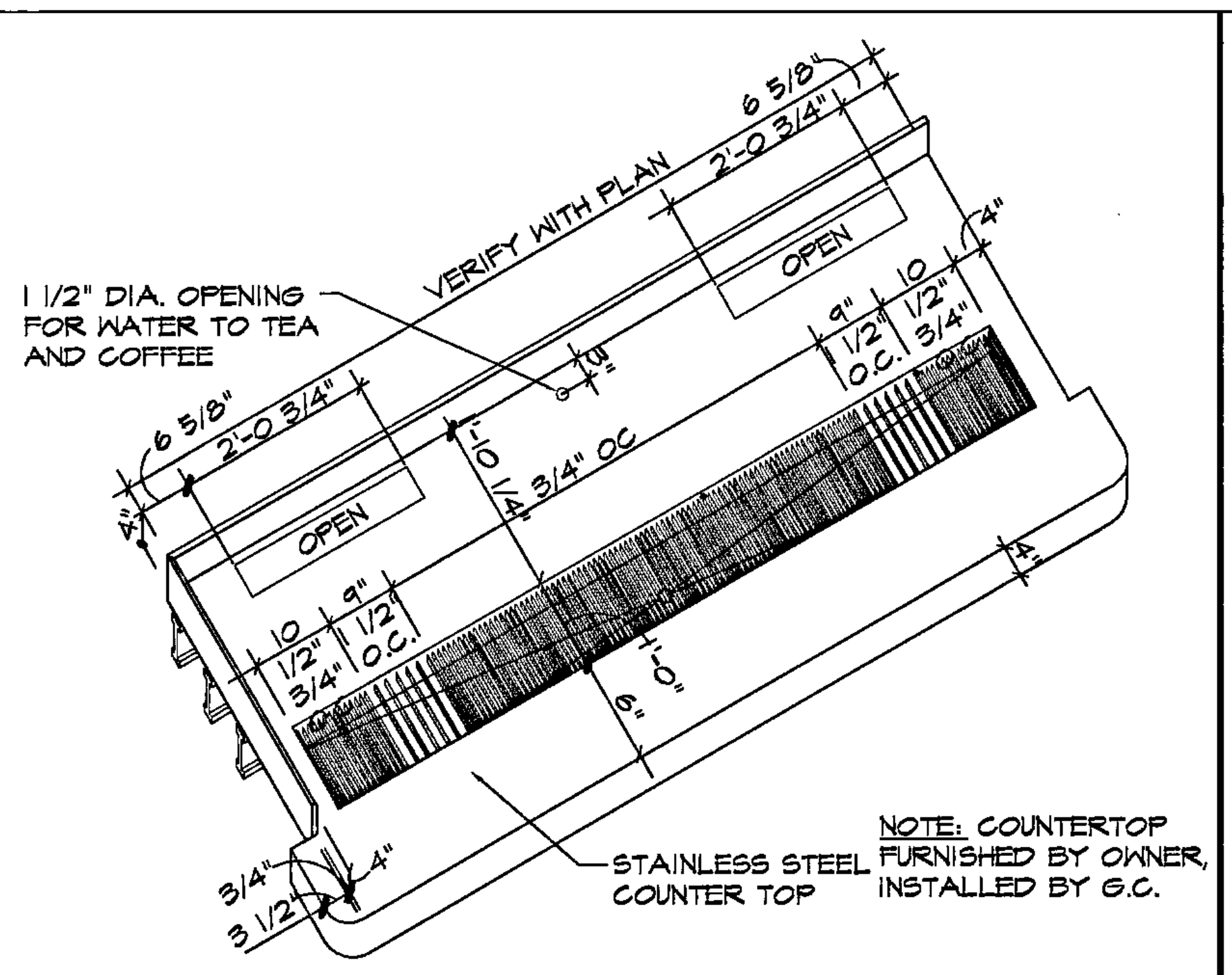
17 OAK CAP DETAIL AT WINDOW

SCALE: 3" = 1'-0"


5/8" GYP. BD. EACH SIDE - FINISH AS SCHEDULED.
FIRE EXTINGUISHER CABINET - RE: SPECS.
5/8" GYP. BD. WITH ADHESIVE TO ADJOINING LAYER.(WHERE APPLICABLE)
ROUGH OPENING PER MFR. SPECS.
2X WOOD BLOCKING @ OPENING
CONT. SEALANT, TYP.
3-5/8" OR 6" METAL STUD FRAMING

13 TYP. FIRE EXTNGSHR. CABINET DETAIL

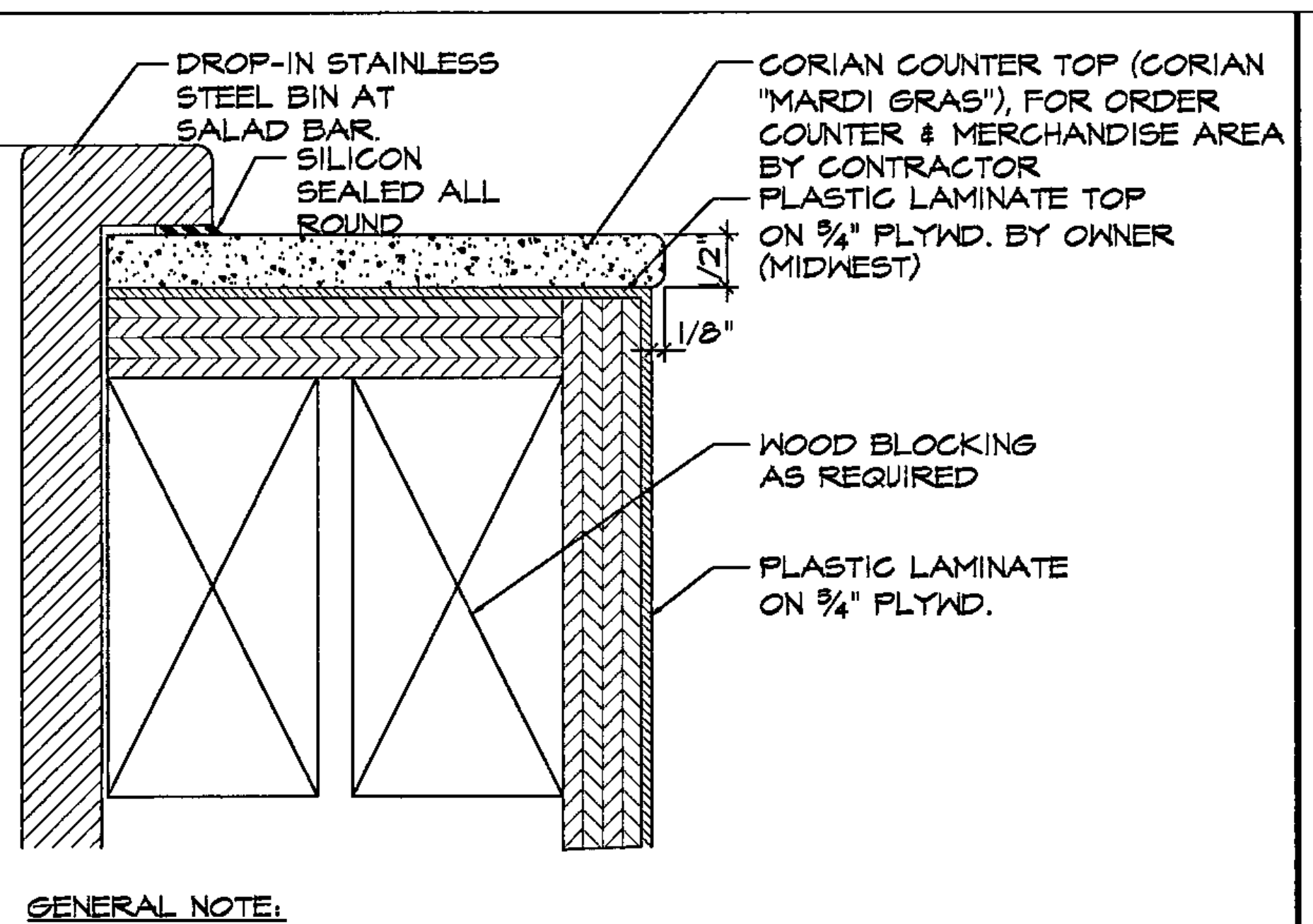
SCALE: 3" = 1'-0"



NOTE: COUNTERTOP FURNISHED BY OWNER, INSTALLED BY G.C.

09 STAINLESS STEEL BEV. COUNTER DETAIL

SCALE: 1/2" = 1'-0"

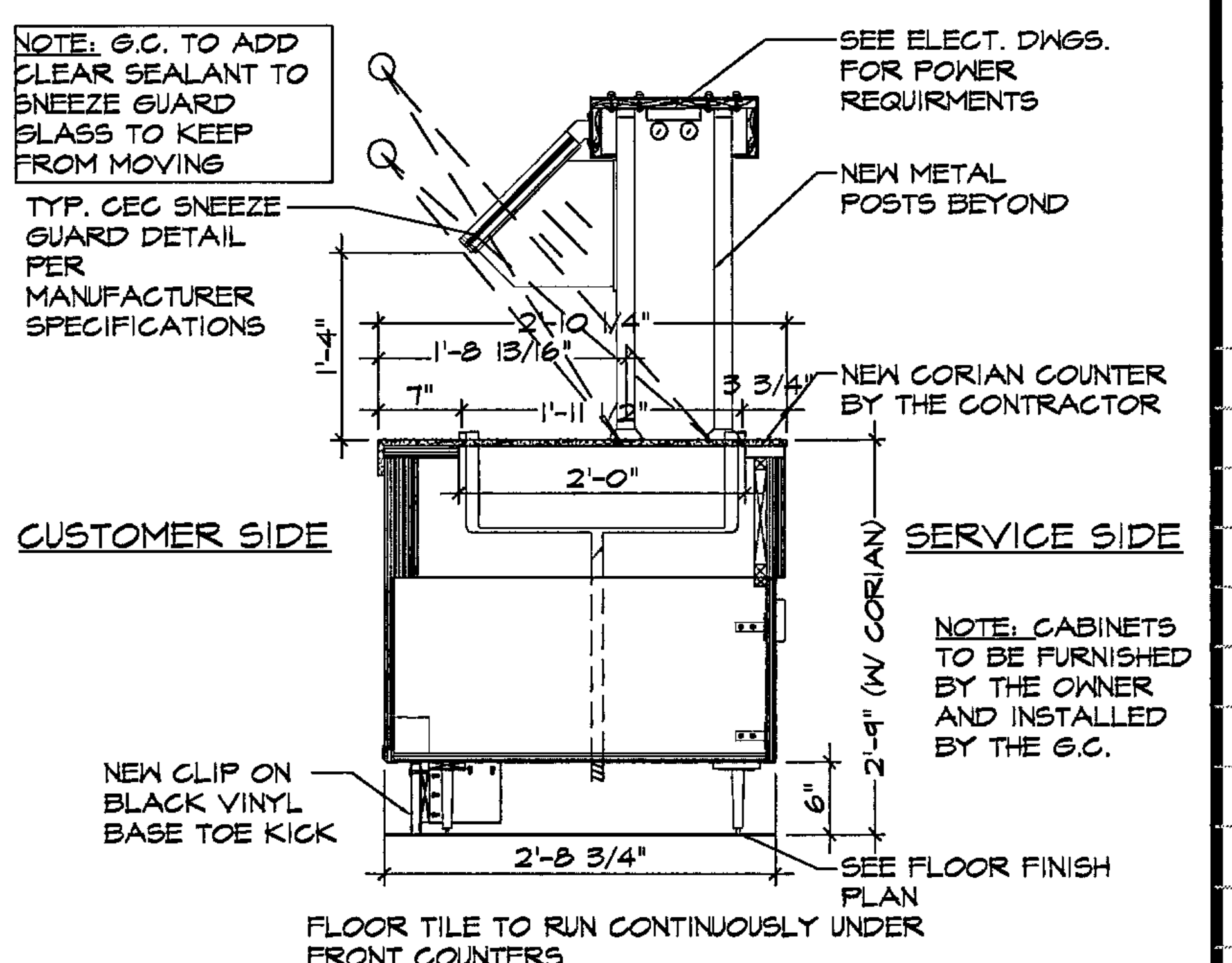

DROP-IN STAINLESS STEEL BIN AT SALAD BAR.
SILICON SEALED ALL ROUND
CORIAN COUNTER TOP (CORIAN "MARDI GRAS"), FOR ORDER COUNTER & MERCHANDISE AREA BY CONTRACTOR
PLASTIC LAMINATE TOP ON ¾" PLYWD. BY OWNER (MIDWEST)
1/2"
1/8"
WOOD BLOCKING AS REQUIRED
PLASTIC LAMINATE ON ¾" PLYWD.

GENERAL NOTE:
NEW COUNTER INSTALLATION, PER MANUFACTURERS (MID WEST CABINETS) SPEC'S TYPICAL FOR ORDER COUNTER, MERCHANDISE AREA CABINETRY, SALAD BAR & BEVERAGE BAR.

05 CORIAN COUNTER TOP DETAIL

SCALE: 6" = 1'-0"

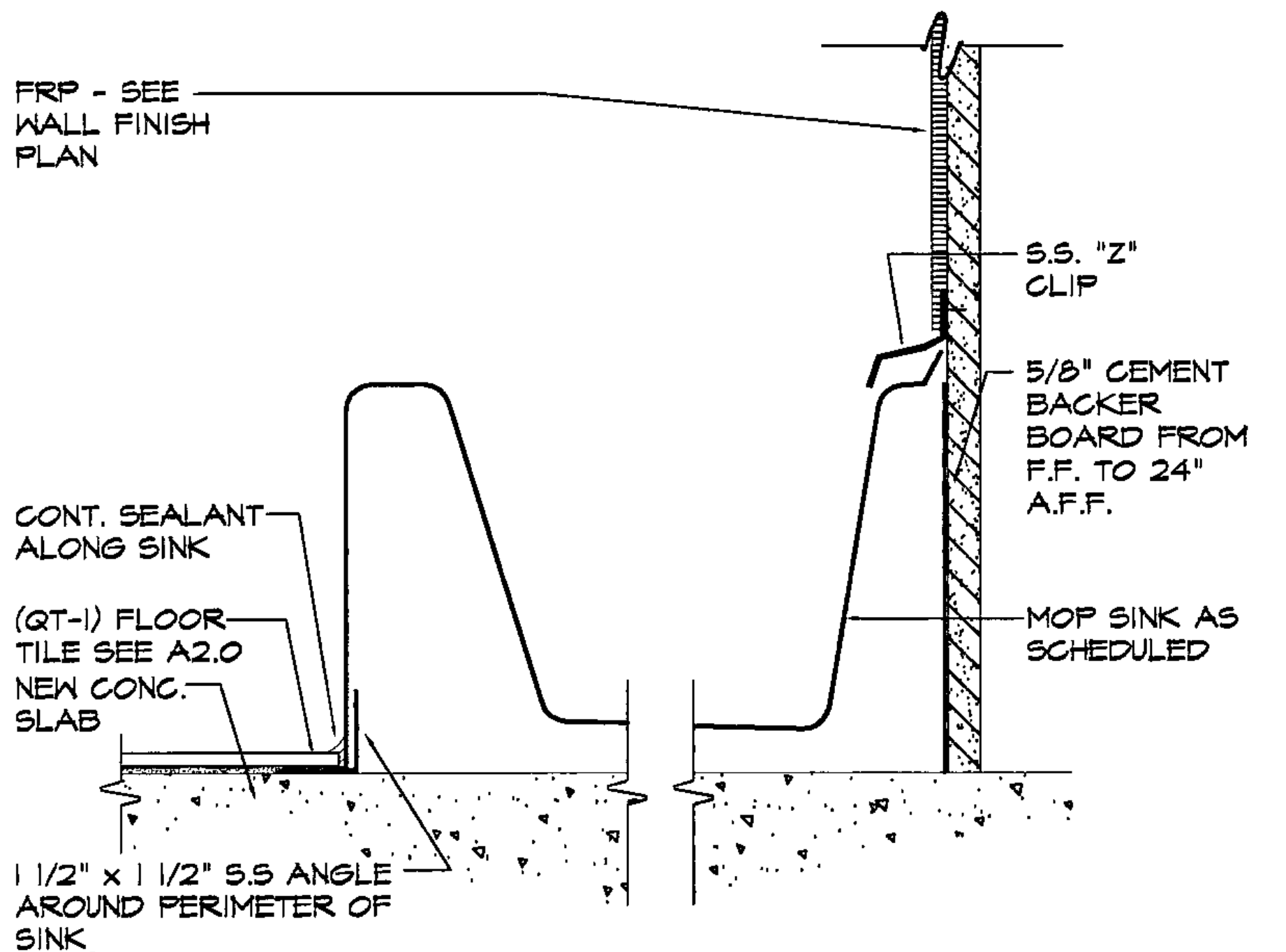
NOTE: G.C. TO ADD CLEAR SEALANT TO SNEEZE GUARD GLASS TO KEEP FROM MOVING


TYP. CEC SNEEZE GUARD DETAIL PER MANUFACTURER SPECIFICATIONS
SEE ELECT. DWGS. FOR POWER REQUIRMENTS
NEW METAL POSTS BEYOND
1'-4"
2'-10 1/4"
1'-8 13/16"
7"
1'-11 1/2"
3 3/4"
NEW CORIAN COUNTER BY THE CONTRACTOR
2'-0"
CUSTOMER SIDE
SERVICE SIDE
2'-9" (W/ CORIAN)
NEW CLIP ON BLACK VINYL BASE TOE KICK
6"
2'-8 3/4"
SEE FLOOR FINISH PLAN
FLOOR TILE TO RUN CONTINUOUSLY UNDER FRONT COUNTERS

NOTE: CABINETS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C.

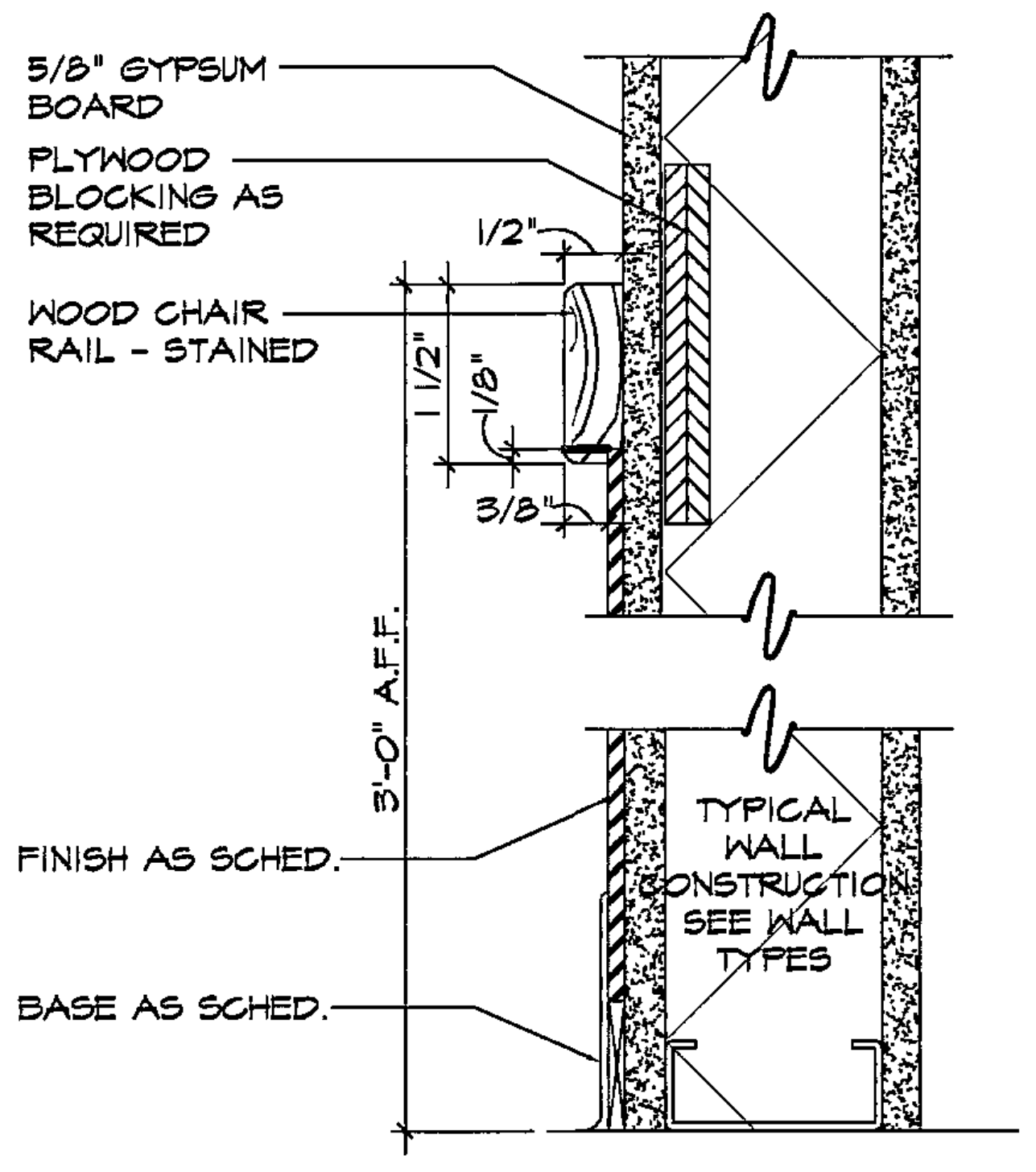
01 FREESTANDING SNEEZE GUARD DETAIL

SCALE: 3/4" = 1'-0"


FRP - SEE WALL FINISH PLAN
S.S. "Z" CLIP
5/8" CEMENT BACKER BOARD FROM F.F. TO 24" A.F.F.
CONT. SEALANT ALONG SINK
(QT-1) FLOOR TILE SEE A2.0
NEW CONC. SLAB
MOP SINK AS SCHEDULED
1 1/2" x 1 1/2" S.S ANGLE AROUND PERIMETER OF SINK

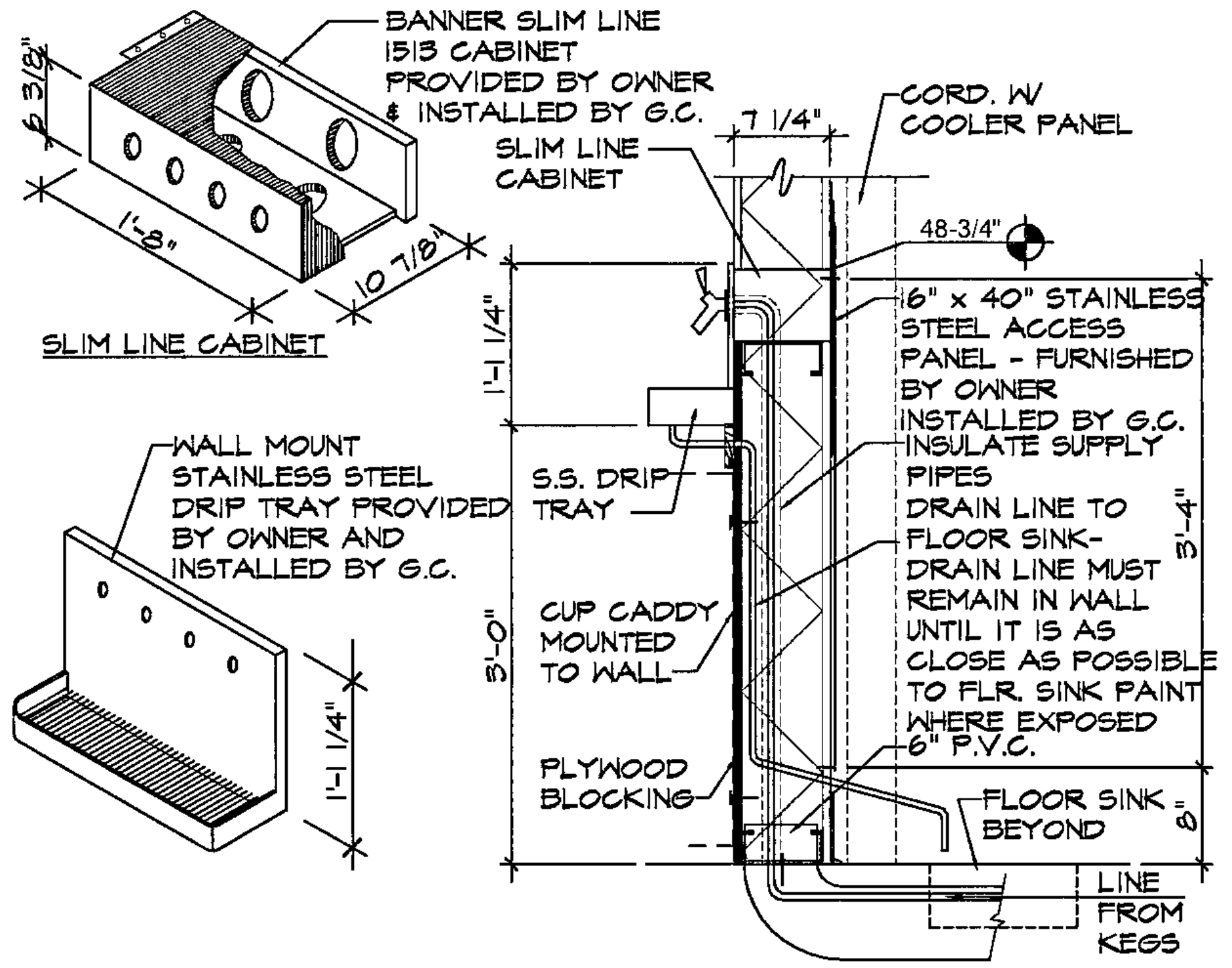
18 TILE BASE @ MOP SINK SECTION

SCALE: 3" = 1'-0"


5/8" GYPSUM BOARD
PLYWOOD BLOCKING AS REQUIRED
1/2"
WOOD CHAIR RAIL - STAINED
1 1/2"
1/8"
3/8"
3'-0" A.F.F.
FINISH AS SCHED.
TYPICAL WALL CONSTRUCTION SEE WALL TYPES
BASE AS SCHED.

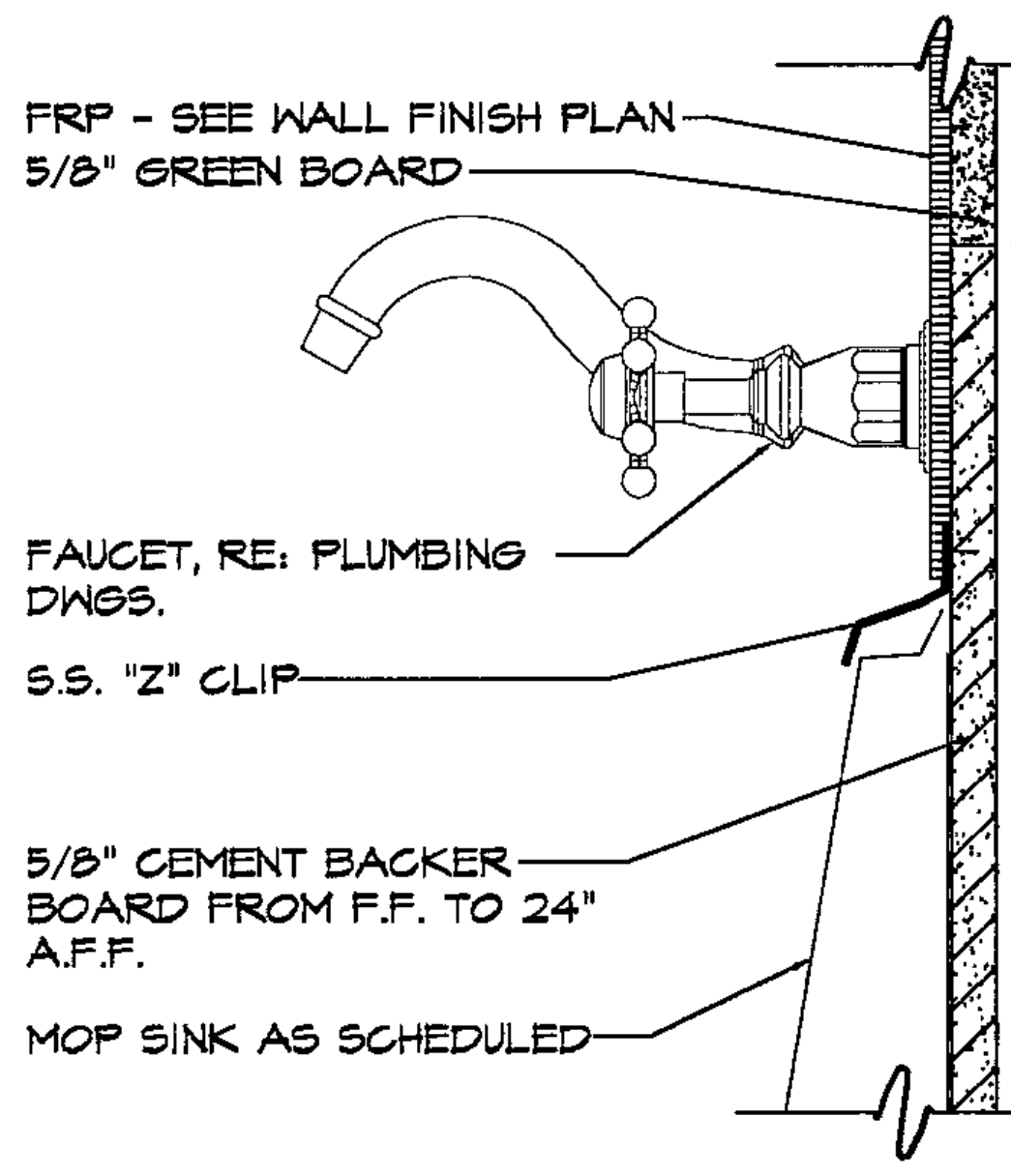
14 TYPICAL CHAIR RAIL DETAIL

SCALE: 6" = 1'-0"


6 3/8"
1'-8"
10 7/8"
SLIM LINE CABINET
BANNER SLIM LINE 1515 CABINET PROVIDED BY OWNER & INSTALLED BY G.C.
7 1/4"
CORD. W/ COOLER PANEL
SLIM LINE CABINET
48-3/4"
1'-1 1/4"
6" x 40" STAINLESS STEEL ACCESS PANEL - FURNISHED BY OWNER INSTALLED BY G.C.
INSULATE SUPPLY PIPES
WALL MOUNT STAINLESS STEEL DRIP TRAY PROVIDED BY OWNER AND INSTALLED BY G.C.
S.S. DRIP TRAY
DRAIN LINE TO FLOOR SINK- DRAIN LINE MUST REMAIN IN WALL UNTIL IT IS AS CLOSE AS POSSIBLE TO FLR. SINK PAINT WHERE EXPOSED
3'-4"
CUP CADDY MOUNTED TO WALL
3'-0"
1'-1 1/4"
6" P.V.C.
PLYWOOD BLOCKING
FLOOR SINK BEYOND
8"
LINE FROM KEGS

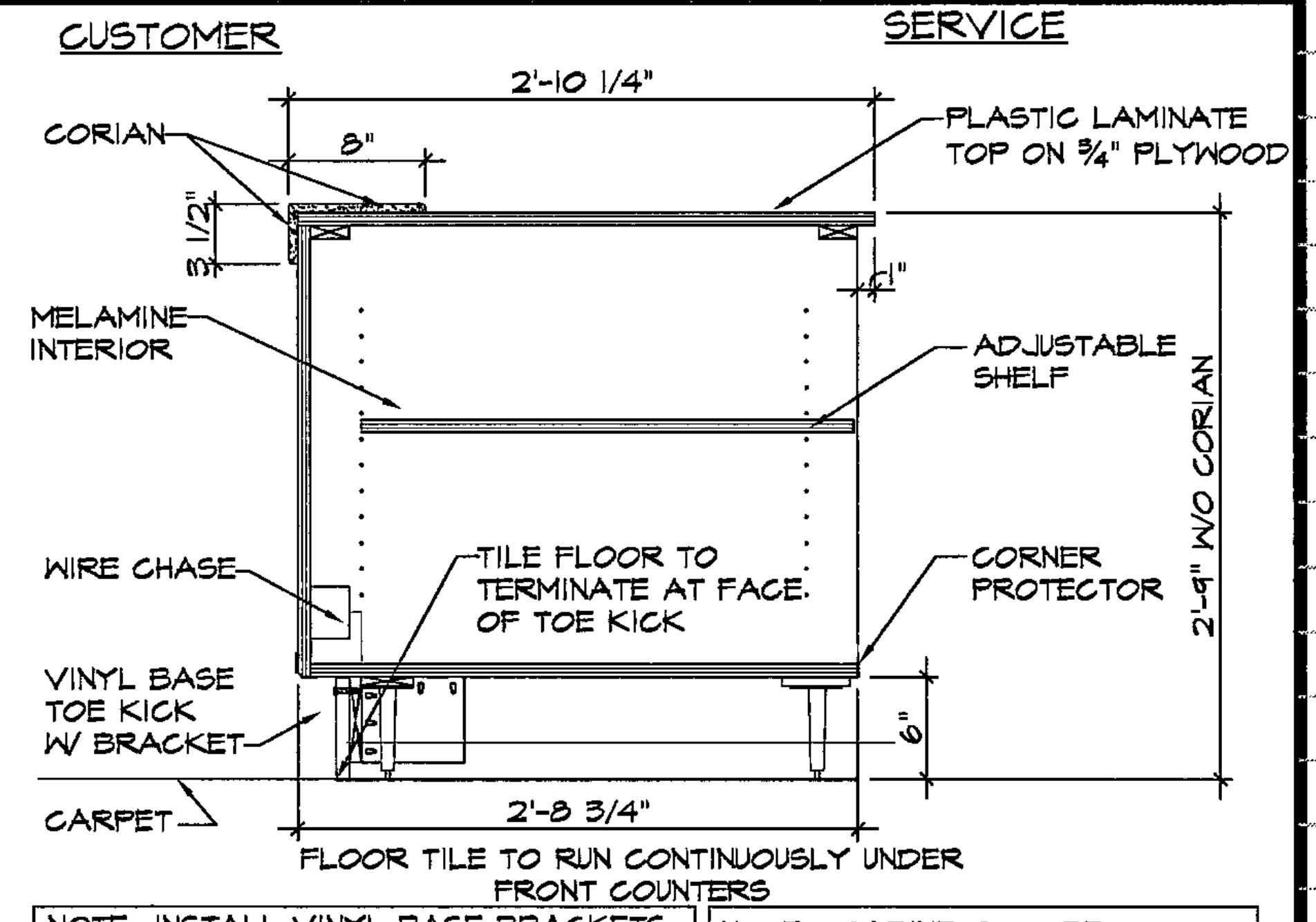
10 BEER TAP SECTION

SCALE: 3/4" = 1'-0"


FRP - SEE WALL FINISH PLAN
5/8" GREEN BOARD
FAUCET, RE: PLUMBING DWGS.
S.S. "Z" CLIP
5/8" CEMENT BACKER BOARD FROM F.F. TO 24" A.F.F.
MOP SINK AS SCHEDULED
2'-0" A.F.F.

06 MOP SINK FAUCET

SCALE: 3" = 1'-0"

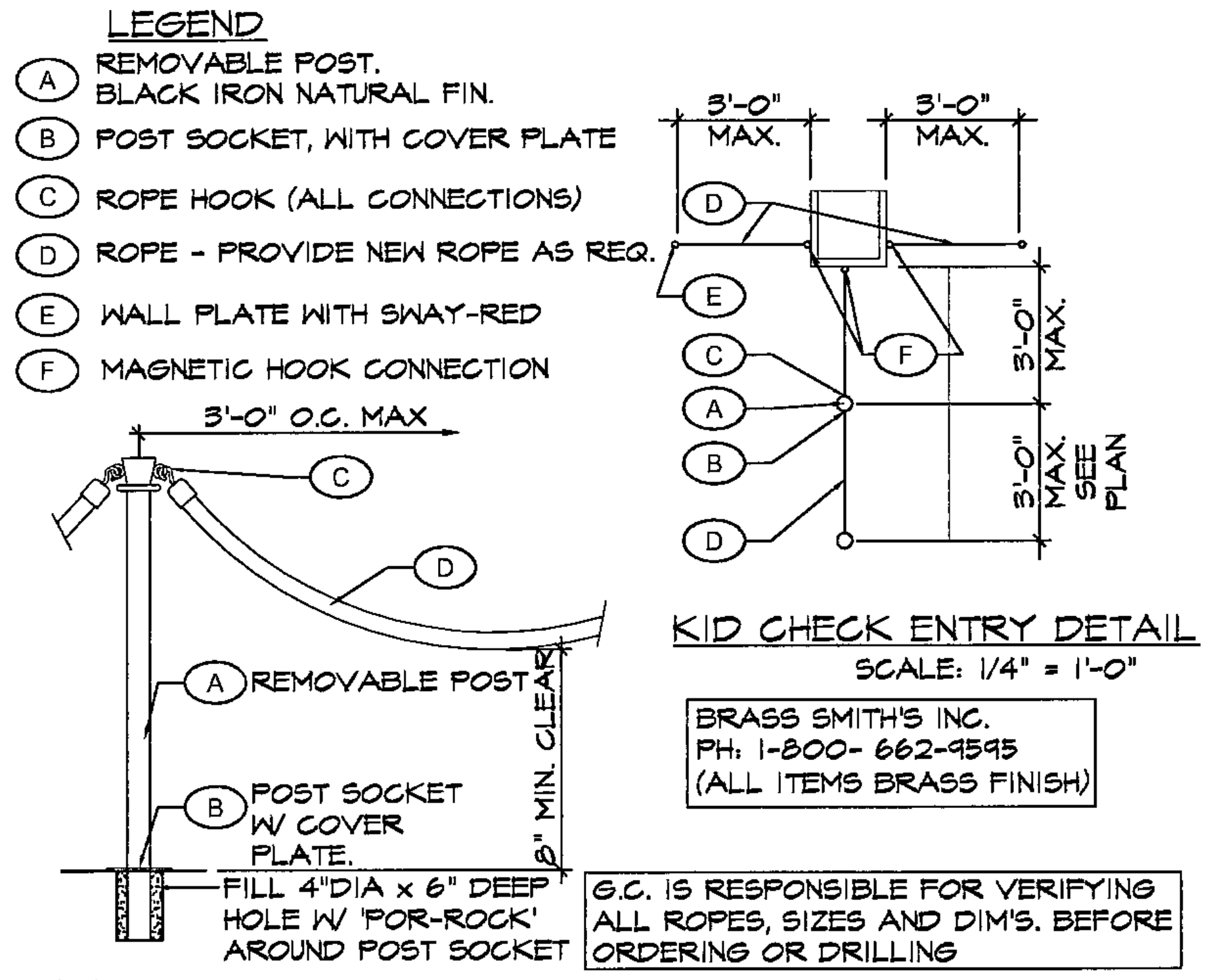

CUSTOMER
SERVICE
2'-10 1/4"
CORIAN
8"
3 1/2"
PLASTIC LAMINATE TOP ON ¾" PLYWOOD
1"
MELAMINE INTERIOR
ADJUSTABLE SHELF
2'-9" W/O CORIAN
WIRE CHASE
TILE FLOOR TO TERMINATE AT FACE OF TOE KICK
CORNER PROTECTOR
VINYL BASE TOE KICK W/ BRACKET
6"
CARPET
2'-8 3/4"
FLOOR TILE TO RUN CONTINUOUSLY UNDER FRONT COUNTERS

NOTE: INSTALL VINYL BASE BRACKETS WITHIN 3" OF END OF EACH COUNTER SECTION THEN 18" O.C. MIN. 2" W - 2 X 4 "L" - MIN. 2 PER CAB.

NOTE: CABINETS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C..

02 ORDER COUNTER SECTION

SCALE: 1" = 1'-0"

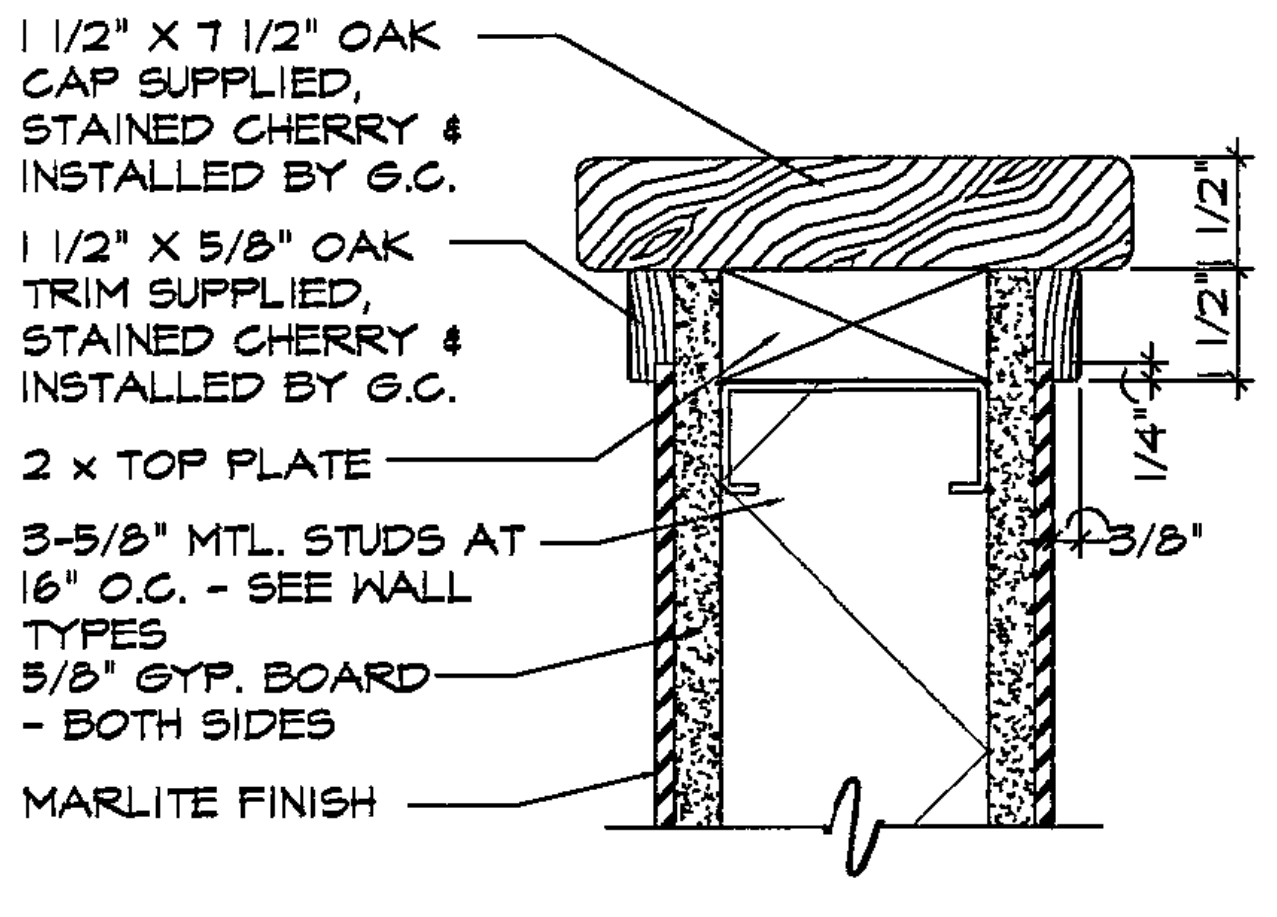

LEGEND
A REMOVABLE POST. BLACK IRON NATURAL FIN.
B POST SOCKET, WITH COVER PLATE
C ROPE HOOK (ALL CONNECTIONS)
D ROPE - PROVIDE NEW ROPE AS REQ.
E WALL PLATE WITH SWAY-RED
F MAGNETIC HOOK CONNECTION
3'-0" MAX.
3'-0" MAX.
D
E
F
C
A
B
D
3'-0" MAX.
3'-0" MAX. SEE PLAN
3'-0" O.C. MAX
C
D
A REMOVABLE POST
B POST SOCKET W/ COVER PLATE.
3" MIN. CLEAR
FILL 4"DIA x 6" DEEP HOLE W/ 'POR-ROCK' AROUND POST SOCKET
KID CHECK ENTRY DETAIL
SCALE: 1/4" = 1'-0"

BRASS SMITH'S INC.
PH: 1-800- 662-9595
(ALL ITEMS BRASS FINISH)

G.C. IS RESPONSIBLE FOR VERIFYING ALL ROPES, SIZES AND DIM'S. BEFORE ORDERING OR DRILLING

19 KID CHECK STANCHION DETAIL

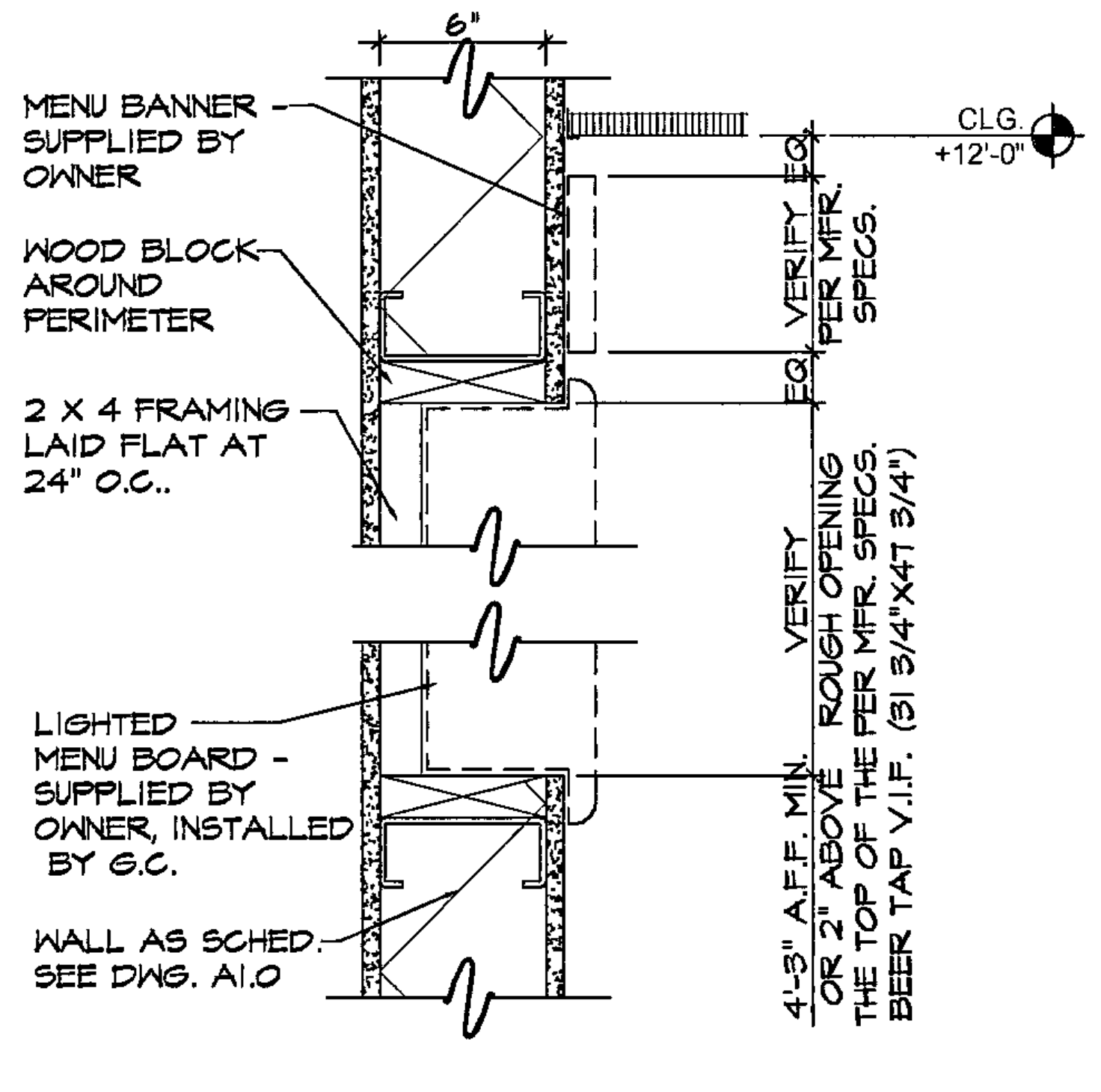
SCALE: 3/4" = 1'-0"


1 1/2" X 7 1/2" OAK CAP SUPPLIED, STAINED CHERRY & INSTALLED BY G.C.
1 1/2" X 5/8" OAK TRIM SUPPLIED, STAINED CHERRY & INSTALLED BY G.C.
2 x TOP PLATE
3-5/8" MTL. STUDS AT 16" O.C. - SEE WALL TYPES
5/8" GYP. BOARD - BOTH SIDES
MARLITE FINISH
1/2"
1/2"
1/4"
3/8"

NOTE:
FOR WOOD STAIN FINISH & MARLITE SPECIFICATIONS - RE: A2.1 FINISH SPECIFICATIONS

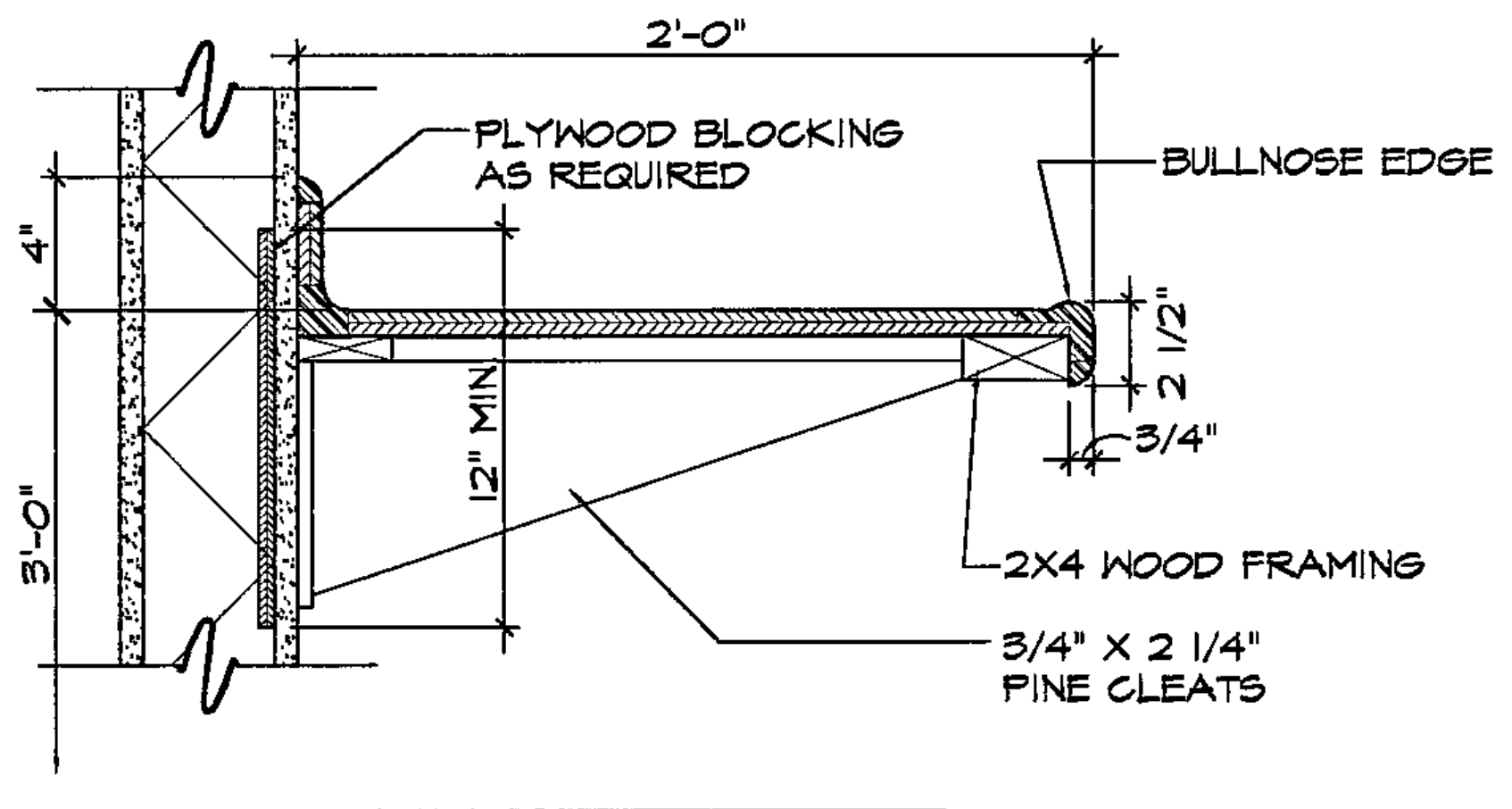
15 ENLARGED CAP DETAIL

SCALE: 3" = 1'-0"


6"
MENU BANNER SUPPLIED BY OWNER
CLG. +12'-0"
WOOD BLOCK AROUND PERIMETER
EQ.
VERIFY PER MFR. SPECS.
EQ.
2 X 4 FRAMING LAID FLAT AT 24" O.C..
LIGHTED MENU BOARD - SUPPLIED BY OWNER, INSTALLED BY G.C.
WALL AS SCHED. SEE DWG. A1.0
4'-3" A.F.F. MIN. OR 2" ABOVE THE TOP OF THE BEER TAP V.I.F.
VERIFY ROUGH OPENING PER MFR. SPECS. (31 3/4"X47 3/4")

11 MENU BOARD SECTION

SCALE: 1 1/2" = 1'-0"

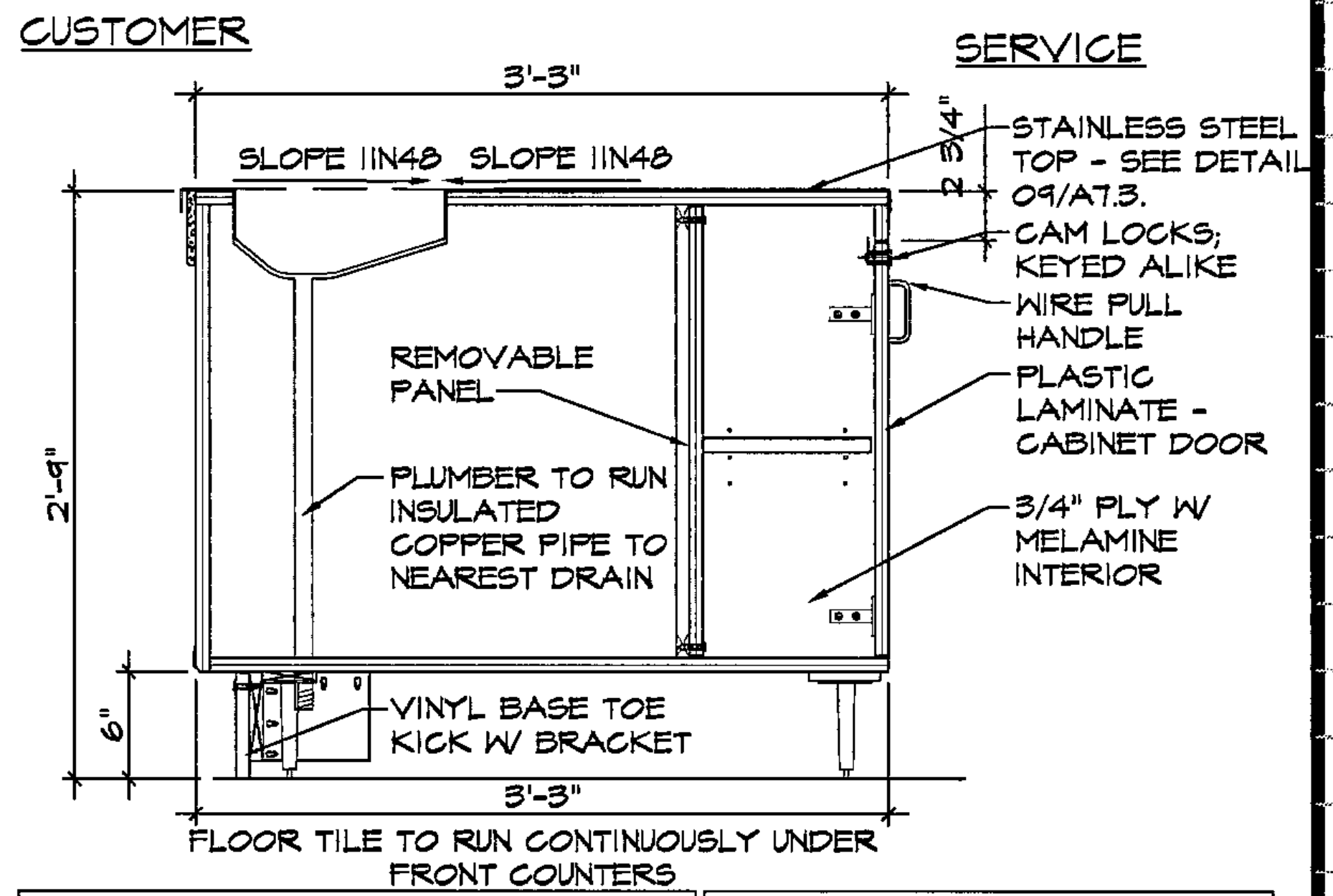


NOTE:
COUNTERTOP PROVIDED BY OTHERS & INSTALLED BY G.C.

* EMPLOYEE BREAK ROOM & OFFICE COUNTER SIMILAR

07 TECH COUNTER SECTION

SCALE: 1 1/2" = 1'-0"

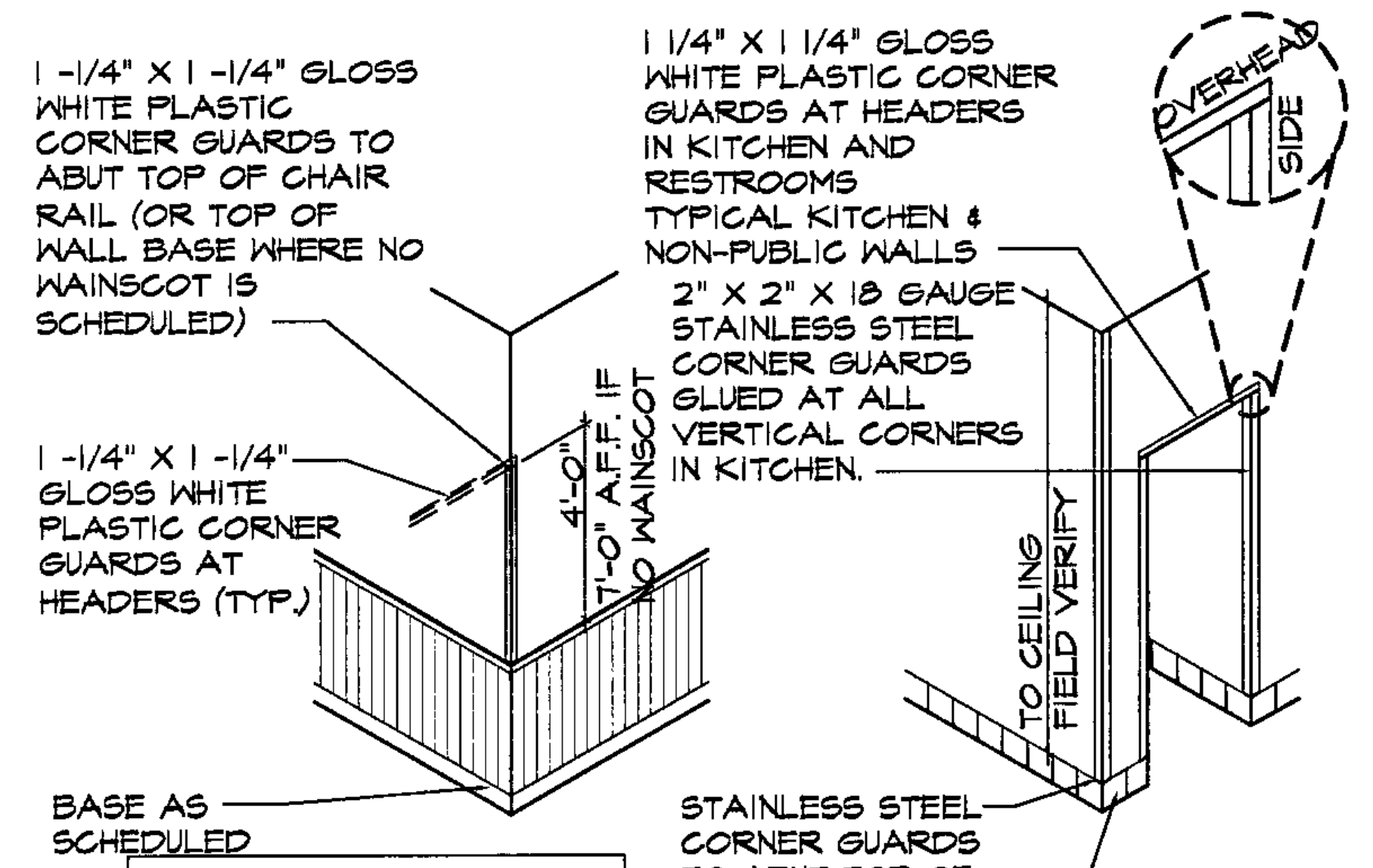

CUSTOMER
SERVICE
3'-3"
SLOPE 1IN48
SLOPE 1IN48
2 3/4"
STAINLESS STEEL TOP - SEE DETAIL 09/A7.3.
CAM LOCKS; KEYED ALIKE
WIRE PULL HANDLE
REMOVABLE PANEL
PLASTIC LAMINATE - CABINET DOOR
2'-9"
PLUMBER TO RUN INSULATED COPPER PIPE TO NEAREST DRAIN
3/4" PLY W/ MELAMINE INTERIOR
6"
VINYL BASE TOE KICK W/ BRACKET
3'-3"
FLOOR TILE TO RUN CONTINUOUSLY UNDER FRONT COUNTERS

NOTE: INSTALL VINYL BASE BRACKETS WITHIN 3" OF END OF EACH COUNTER SECTION THEN 18" O.C. MIN. 2" W - 2 X 4 "L" - MIN. 2 PER CAB.

NOTE: CABINETS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C..

03 BEVERAGE BAR SECTION

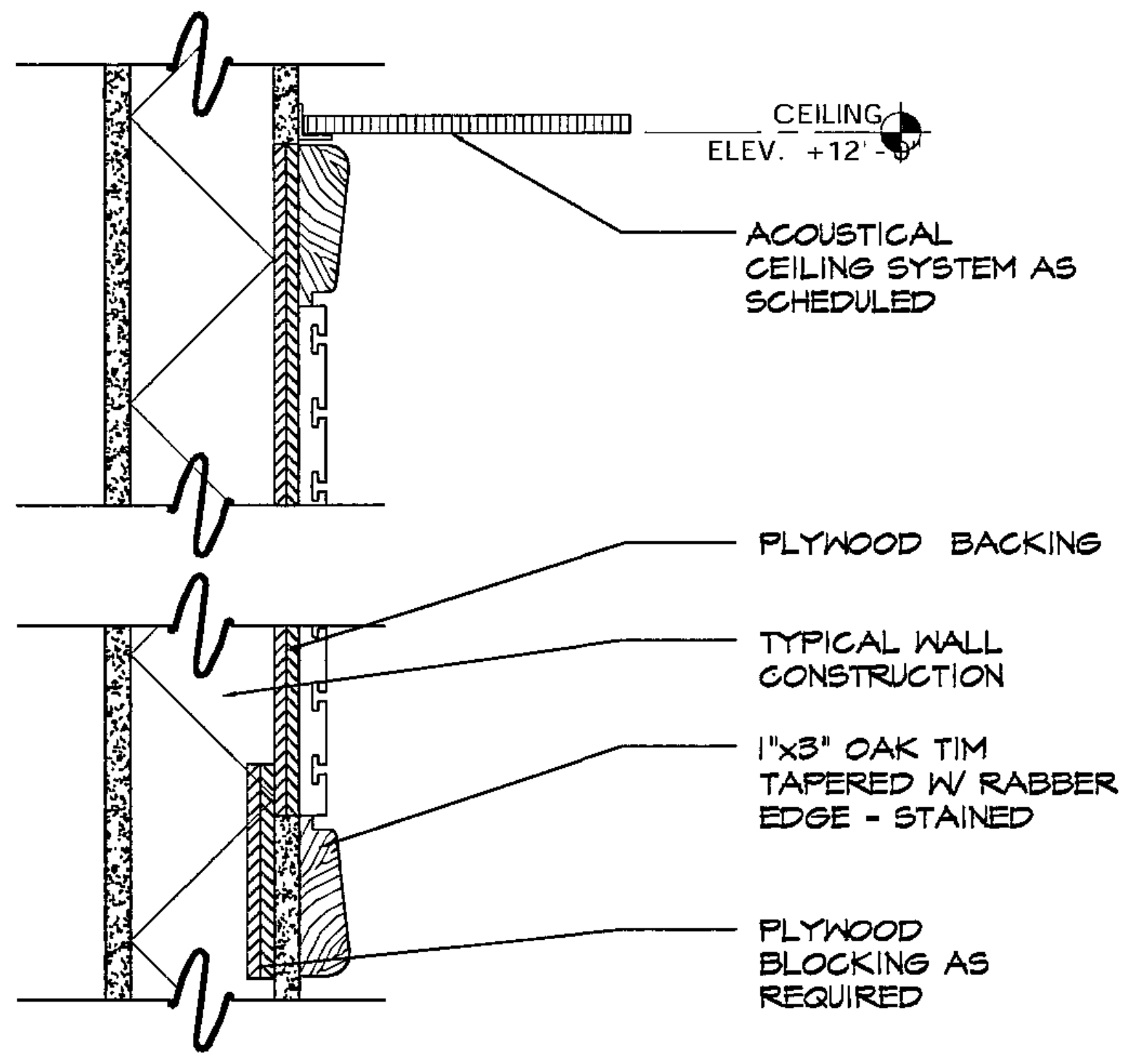
SCALE: 1" = 1'-0"


1 -1/4" X 1 -1/4" GLOSS WHITE PLASTIC CORNER GUARDS TO ABUT TOP OF CHAIR RAIL (OR TOP OF WALL BASE WHERE NO WAINSCOT IS SCHEDULED)
1 1/4" X 1 1/4" GLOSS WHITE PLASTIC CORNER GUARDS AT HEADERS IN KITCHEN AND RESTROOMS
TYPICAL KITCHEN & NON-PUBLIC WALLS
2" X 2" X 18 GAUGE STAINLESS STEEL CORNER GUARDS GLUED AT ALL VERTICAL CORNERS IN KITCHEN.
OVERHEAD
SIDE
1 -1/4" X 1 -1/4" GLOSS WHITE PLASTIC CORNER GUARDS AT HEADERS (TYP.)
4'-0"
7'-0" A.F.F. IF NO WAINSCOT
TO CEILING FIELD VERIFY
BASE AS SCHEDULED
STAINLESS STEEL CORNER GUARDS TO ABUT TOP OF WALL BASE
BASE AS SCHEDULED

FOR CORNER GUARDS AT WALLS PAINTED CORSICAN PURPLE USE, PALM BEACH PLASTICS - CC6618614-00 P.C. BRITTNEY BLUE - GLOSS

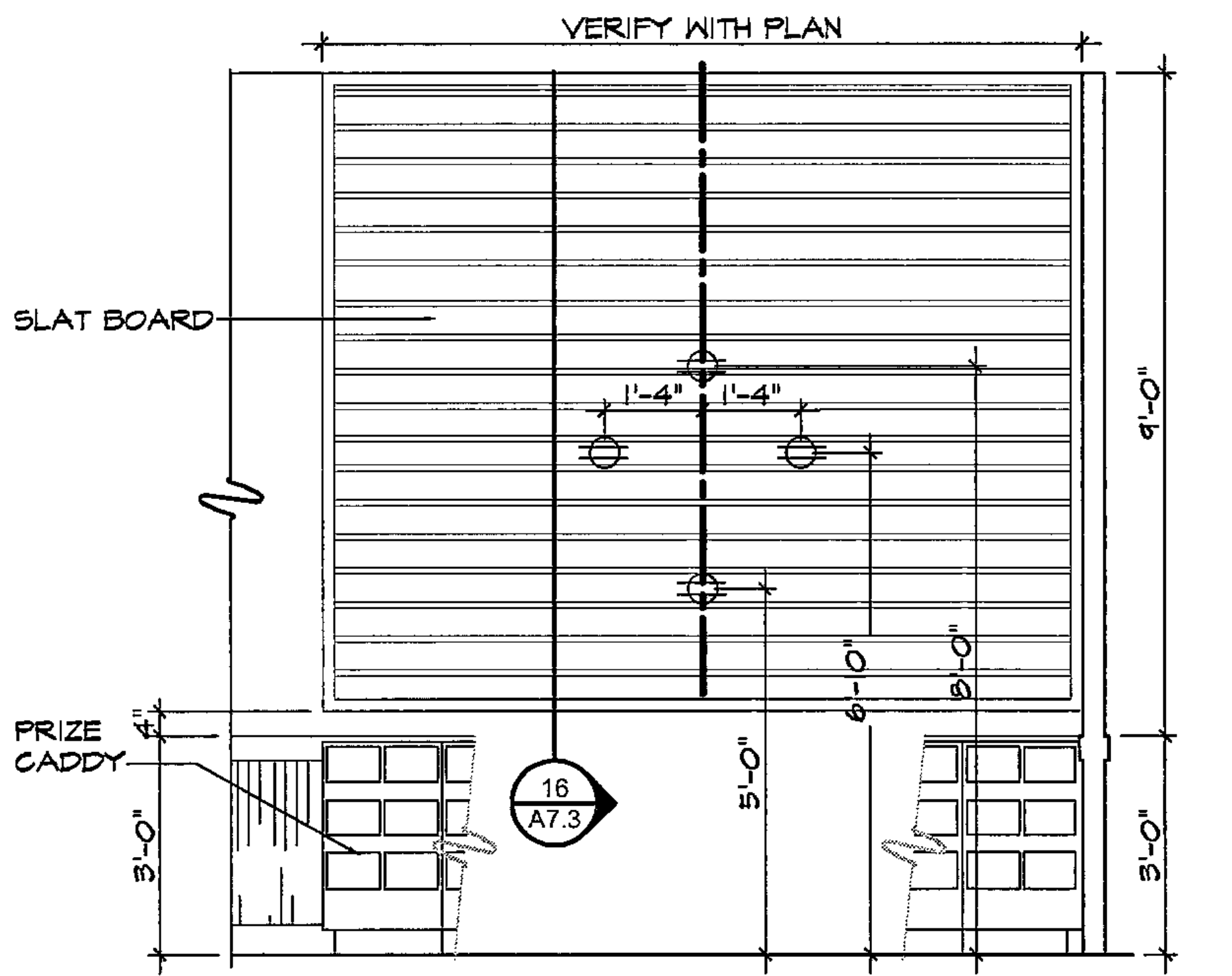
20 CORNER GUARD DETAIL

SCALE: 1/4" = 1'-0"


CEILING ELEV. +12'
ACOUSTICAL CEILING SYSTEM AS SCHEDULED
PLYWOOD BACKING
TYPICAL WALL CONSTRUCTION
1"x3" OAK TIM TAPERED W/ RABBER EDGE - STAINED
PLYWOOD BLOCKING AS REQUIRED

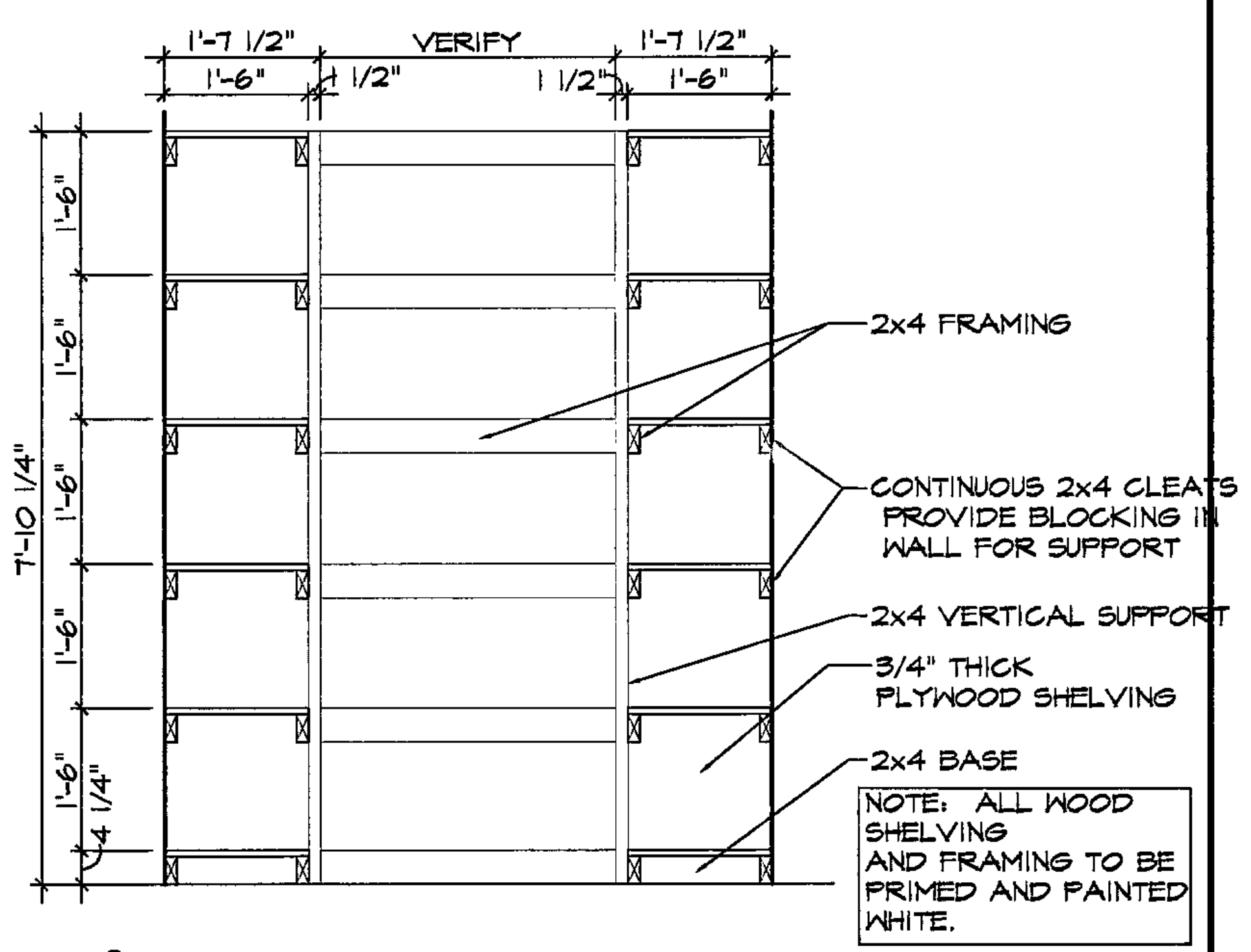
16 SLAT WALL SECTION

SCALE: 3" = 1'-0"



12 SLAT WALL ELEVATION

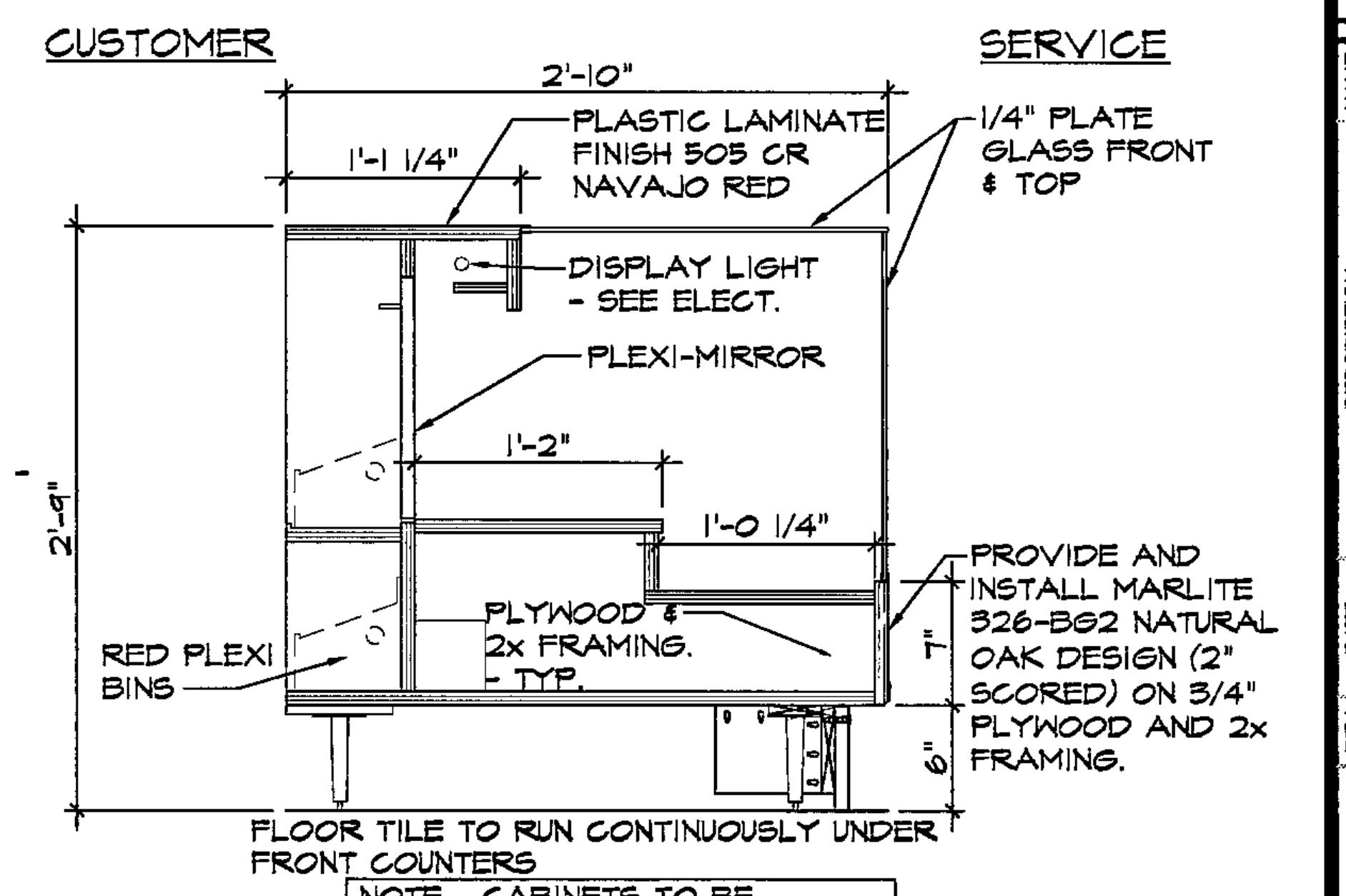
SCALE: 3/8" = 1'-0"



NOTE: ALL WOOD SHELVING AND FRAMING TO BE PRIMED AND PAINTED WHITE.

08 MERCHANT STORAGE SHELVING DETAIL

SCALE: 1/2" = 1'-0"


CUSTOMER
SERVICE
2'-10"
1'-1 1/4"
PLASTIC LAMINATE FINISH 505 CR NAVAJO RED
1/4" PLATE GLASS FRONT & TOP
DISPLAY LIGHT - SEE ELECT.
PLEXI-MIRROR
1'-2"
1'-0 1/4"
2'-9"
RED PLEXI BINS
PLYWOOD & 2x FRAMING. - TYP.
7"
6"
PROVIDE AND INSTALL MARLITE 326-B62 NATURAL OAK DESIGN (2" SCORED) ON 3/4" PLYWOOD AND 2x FRAMING.
FLOOR TILE TO RUN CONTINUOUSLY UNDER FRONT COUNTERS

NOTE: CABINETS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C..

04 PRIZE COUNTER SECTION

SCALE: 1" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

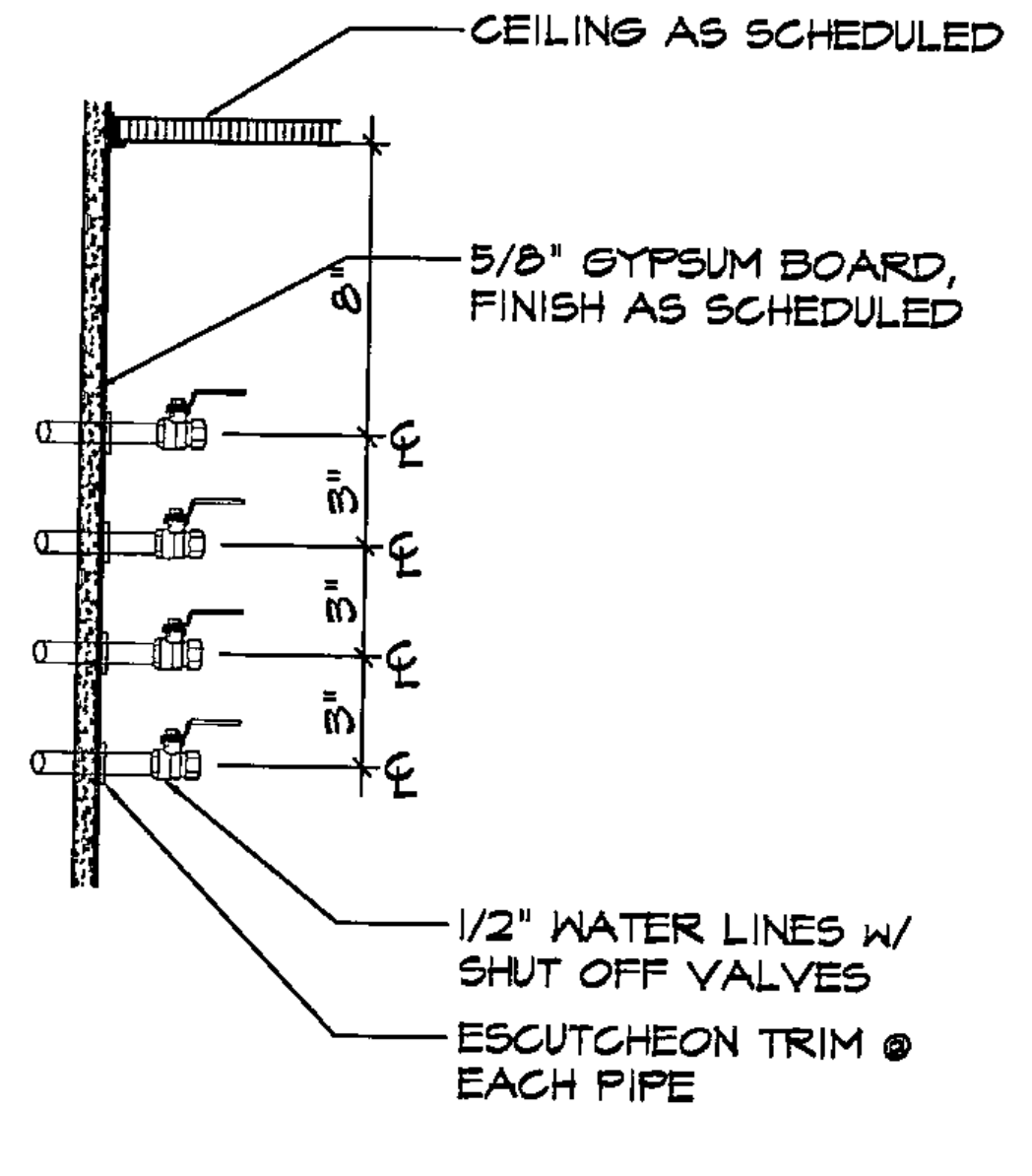
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

DETAILS

A7.3


CEILING AS SCHEDULED
5/8" GYPSUM BOARD, FINISH AS SCHEDULED
8"
3"
3"
3"
℄
1/2" WATER LINES W/ SHUT OFF VALVES
ESCUTCHEON TRIM @ EACH PIPE

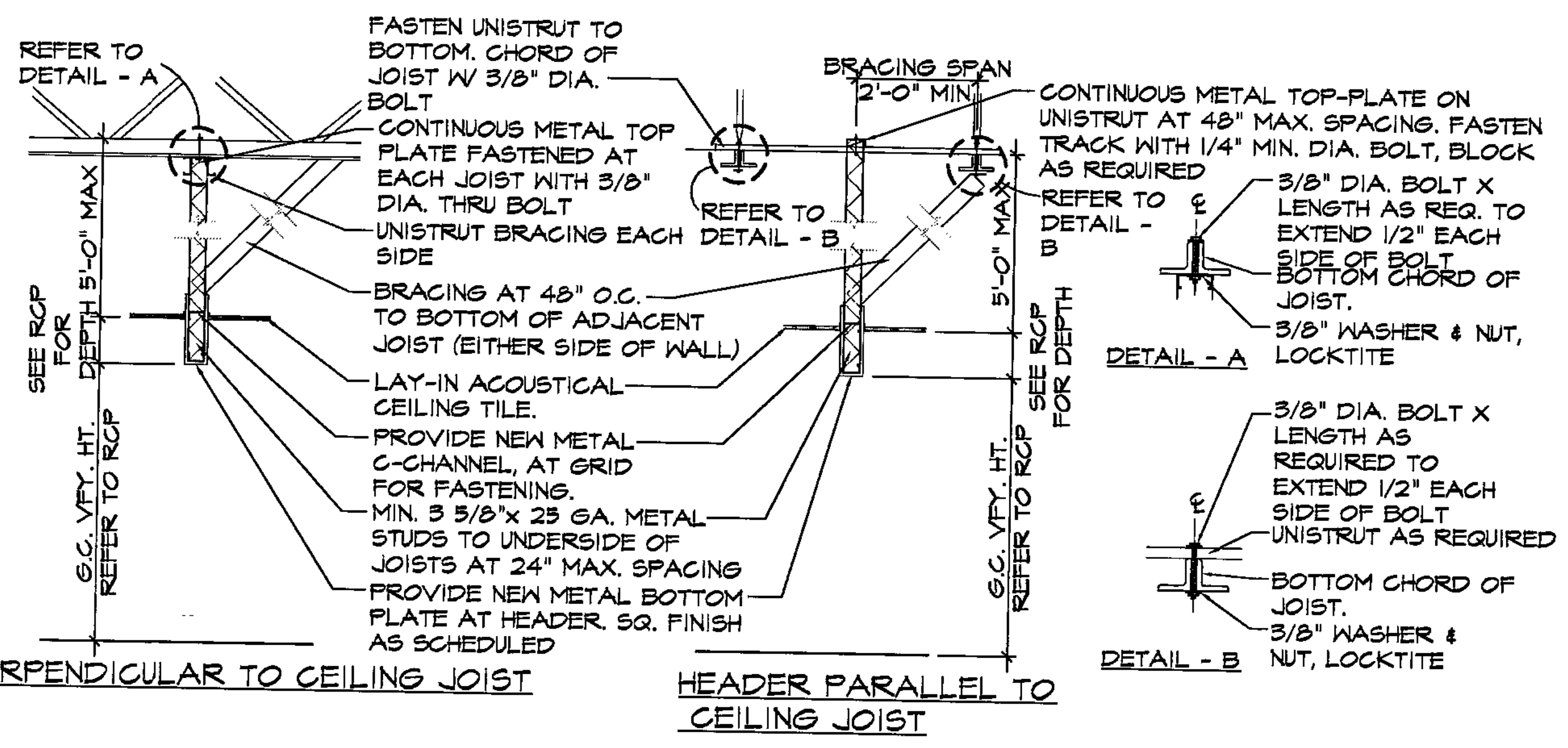
15 WATER LINE DETAIL

SCALE: 1-1/2" = 1'-0"

NOTE:

1. G.C. TO VFY. DIAGONAL BRACING AND TOP PLATE ATTACHMENT TO STRUCTURE ABOVE PRIOR TO CUTTING IN NEW HEADERS.

2. PAINT ALL HEADERS HAZE WITH THE EXCEPTION OF THE MERCHANT HEADER (WHITE WOOL) RESTROOM HEADER (WHITE WOOL) STAGE HEADER (MATCH COLOR OF ADJ. WALL)


REFER TO DETAIL - A
FASTEN UNISTRUT TO BOTTOM. CHORD OF JOIST W/ 3/8" DIA. BOLT
CONTINUOUS METAL TOP PLATE FASTENED AT EACH JOIST WITH 3/8" DIA. THRU BOLT
UNISTRUT BRACING EACH SIDE
BRACING AT 48" O.C. TO BOTTOM OF ADJACENT JOIST (EITHER SIDE OF WALL)
LAY-IN ACOUSTICAL CEILING TILE.
PROVIDE NEW METAL C-CHANNEL, AT GRID FOR FASTENING.
MIN. 3 5/8"x 25 GA. METAL STUDS TO UNDERSIDE OF JOISTS AT 24" MAX. SPACING
PROVIDE NEW METAL BOTTOM PLATE AT HEADER. SQ. FINISH AS SCHEDULED
SEE RCP FOR DEPTH 5'-0" MAX
G.C. VFY. HT. REFER TO RCP
REFER TO DETAIL - B
BRACING SPAN 2'-0" MIN.
CONTINUOUS METAL TOP-PLATE ON UNISTRUT AT 48" MAX. SPACING. FASTEN TRACK WITH 1/4" MIN. DIA. BOLT, BLOCK AS REQUIRED
REFER TO DETAIL - B
5'-0" MAX
SEE RCP FOR DEPTH
G.C. VFY. HT. REFER TO RCP
HEADER PERPENDICULAR TO CEILING JOIST
HEADER PARALLEL TO CEILING JOIST
℄
3/8" DIA. BOLT X LENGTH AS REQ. TO EXTEND 1/2" EACH SIDE OF BOLT
BOTTOM CHORD OF JOIST.
3/8" WASHER & NUT, LOCKTITE
DETAIL - A
3/8" DIA. BOLT X LENGTH AS REQUIRED TO EXTEND 1/2" EACH SIDE OF BOLT
UNISTRUT AS REQUIRED
BOTTOM CHORD OF JOIST.
3/8" WASHER & NUT, LOCKTITE
DETAIL - B

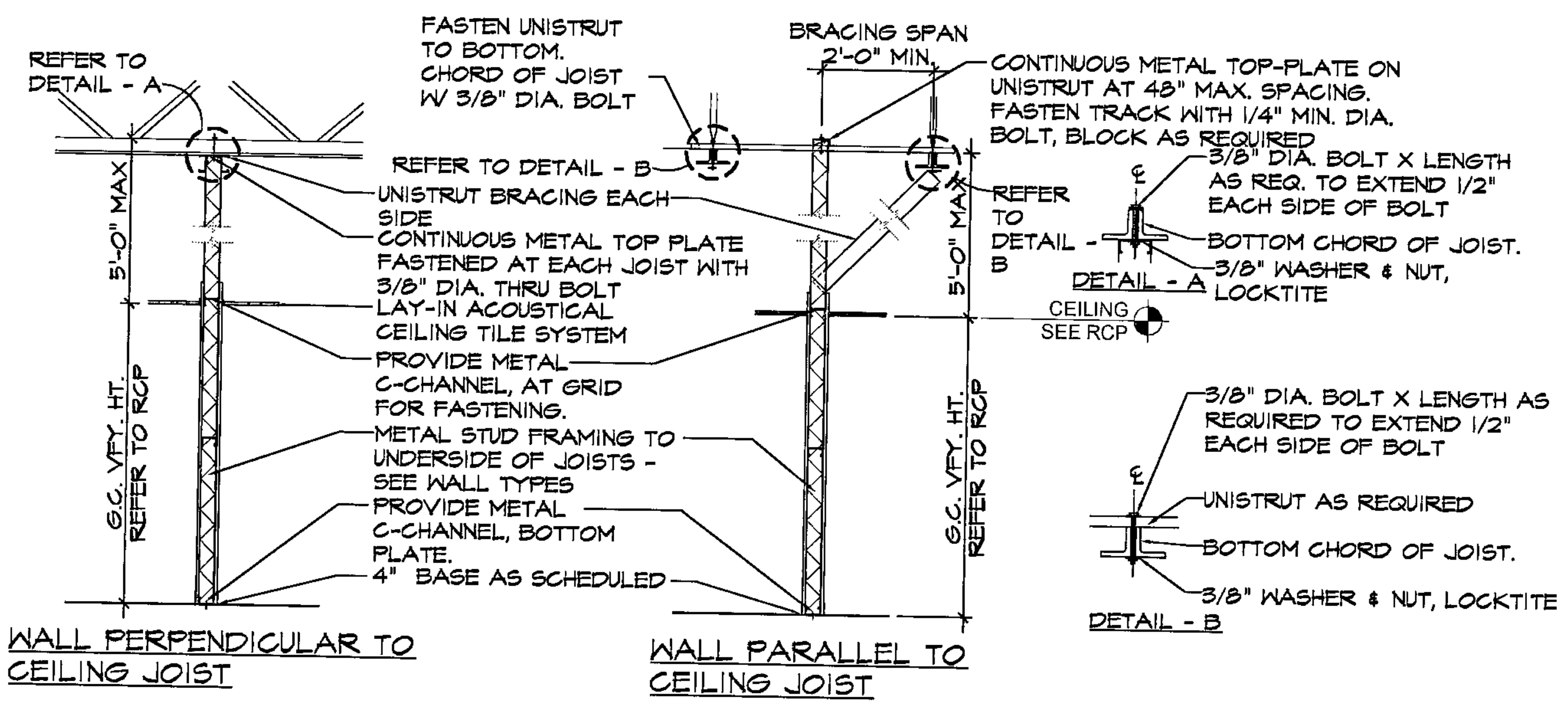
07 TYPICAL HEADER DETAIL

SCALE: N.T.S.

NOTE:

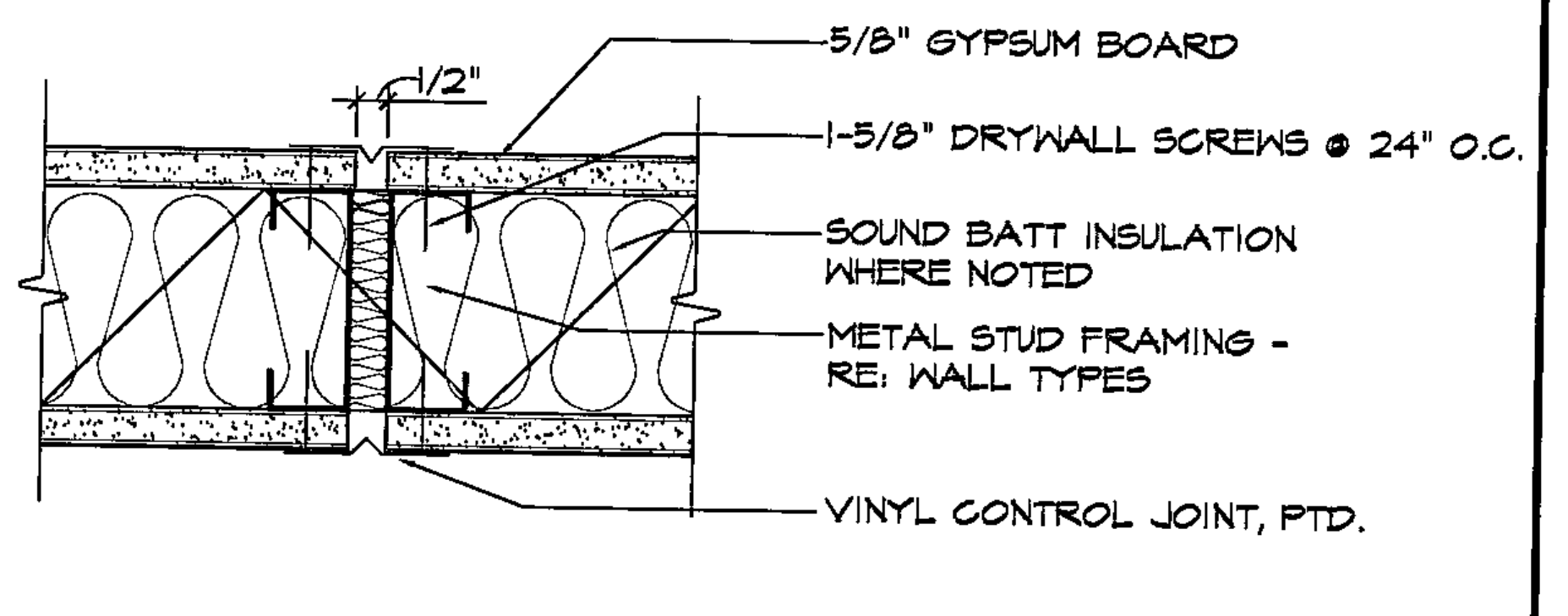
1. G.C. TO VFY. DIAGONAL BRACING AND TOP PLATE ATTACHMENT TO STRUCTURE ABOVE PRIOR TO CUTTING IN NEW OPENINGS.

2. G.C. TO COORDINATE WITH CITY AND FIRE DEPARTMENT LOCATION OF FIRE RATED WALLS AND CORRIDORS


REFER TO DETAIL - A
FASTEN UNISTRUT TO BOTTOM. CHORD OF JOIST W/ 3/8" DIA. BOLT
REFER TO DETAIL - B
UNISTRUT BRACING EACH SIDE
CONTINUOUS METAL TOP PLATE FASTENED AT EACH JOIST WITH 3/8" DIA. THRU BOLT
LAY-IN ACOUSTICAL CEILING TILE SYSTEM
PROVIDE METAL C-CHANNEL, AT GRID FOR FASTENING.
METAL STUD FRAMING TO UNDERSIDE OF JOISTS - SEE WALL TYPES
PROVIDE METAL C-CHANNEL, BOTTOM PLATE.
4" BASE AS SCHEDULED
5'-0" MAX
G.C. VFY. HT. REFER TO RCP
BRACING SPAN 2'-0" MIN.
CONTINUOUS METAL TOP-PLATE ON UNISTRUT AT 48" MAX. SPACING. FASTEN TRACK WITH 1/4" MIN. DIA. BOLT, BLOCK AS REQUIRED
REFER TO DETAIL - B
CEILING SEE RCP
WALL PERPENDICULAR TO CEILING JOIST
WALL PARALLEL TO CEILING JOIST
℄
3/8" DIA. BOLT X LENGTH AS REQ. TO EXTEND 1/2" EACH SIDE OF BOLT
BOTTOM CHORD OF JOIST.
3/8" WASHER & NUT, LOCKTITE
DETAIL - A
3/8" DIA. BOLT X LENGTH AS REQUIRED TO EXTEND 1/2" EACH SIDE OF BOLT
UNISTRUT AS REQUIRED
BOTTOM CHORD OF JOIST.
3/8" WASHER & NUT, LOCKTITE
DETAIL - B

01 TYPICAL FULL HEIGHT WALL DETAIL

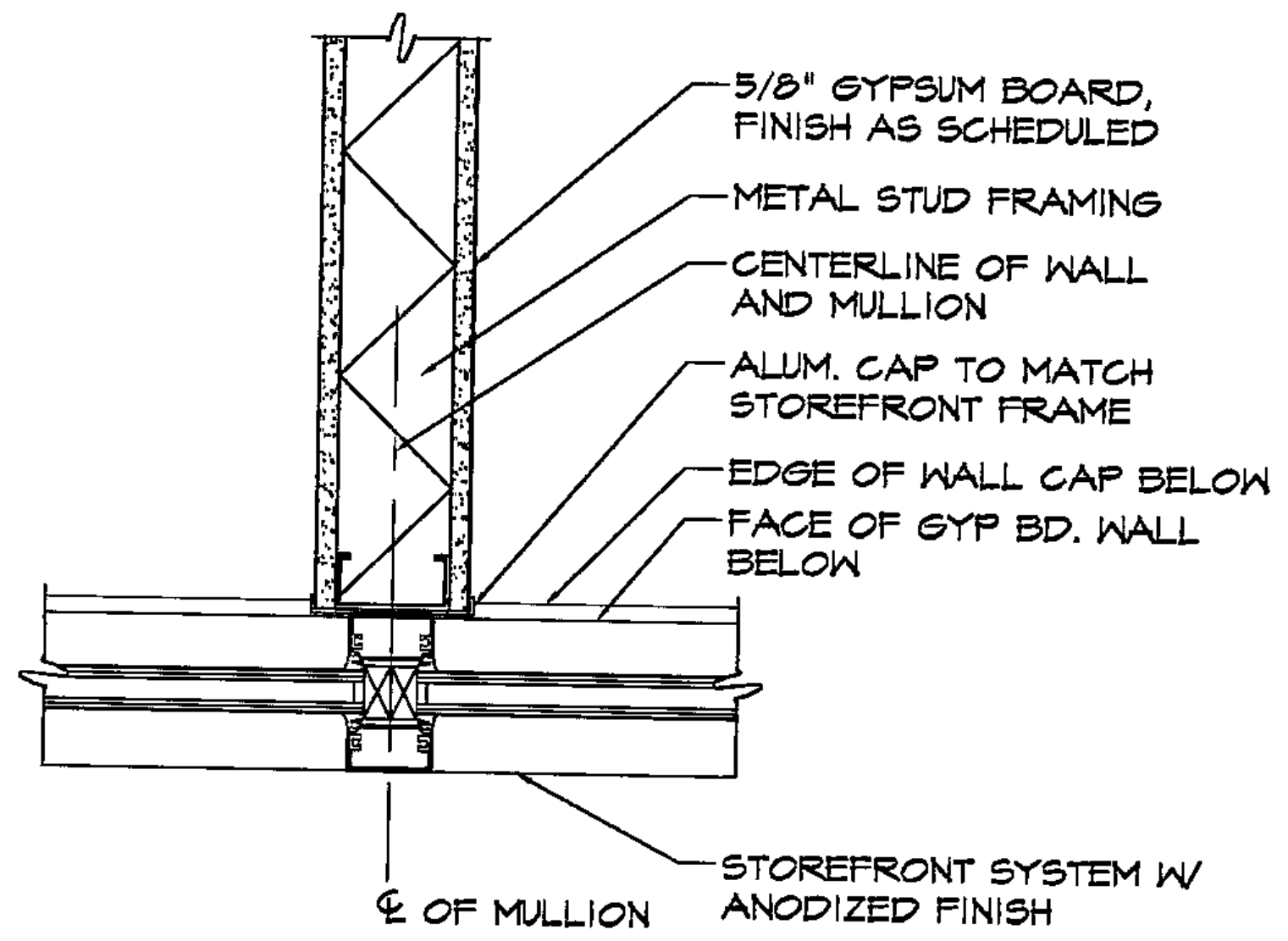
SCALE: N.T.S.


1/2"
5/8" GYPSUM BOARD
1-5/8" DRYWALL SCREWS @ 24" O.C.
SOUND BATT INSULATION WHERE NOTED
METAL STUD FRAMING - RE: WALL TYPES
VINYL CONTROL JOINT, PTD.

NOTE: LOCATE C.J. IN WALLS AND CEILINGS AT MAX. 30'-0" O.C. OR AS INDICATED ON PLANS

11 TYPICAL GYP. BD. C.J.

SCALE: 3" = 1'-0"

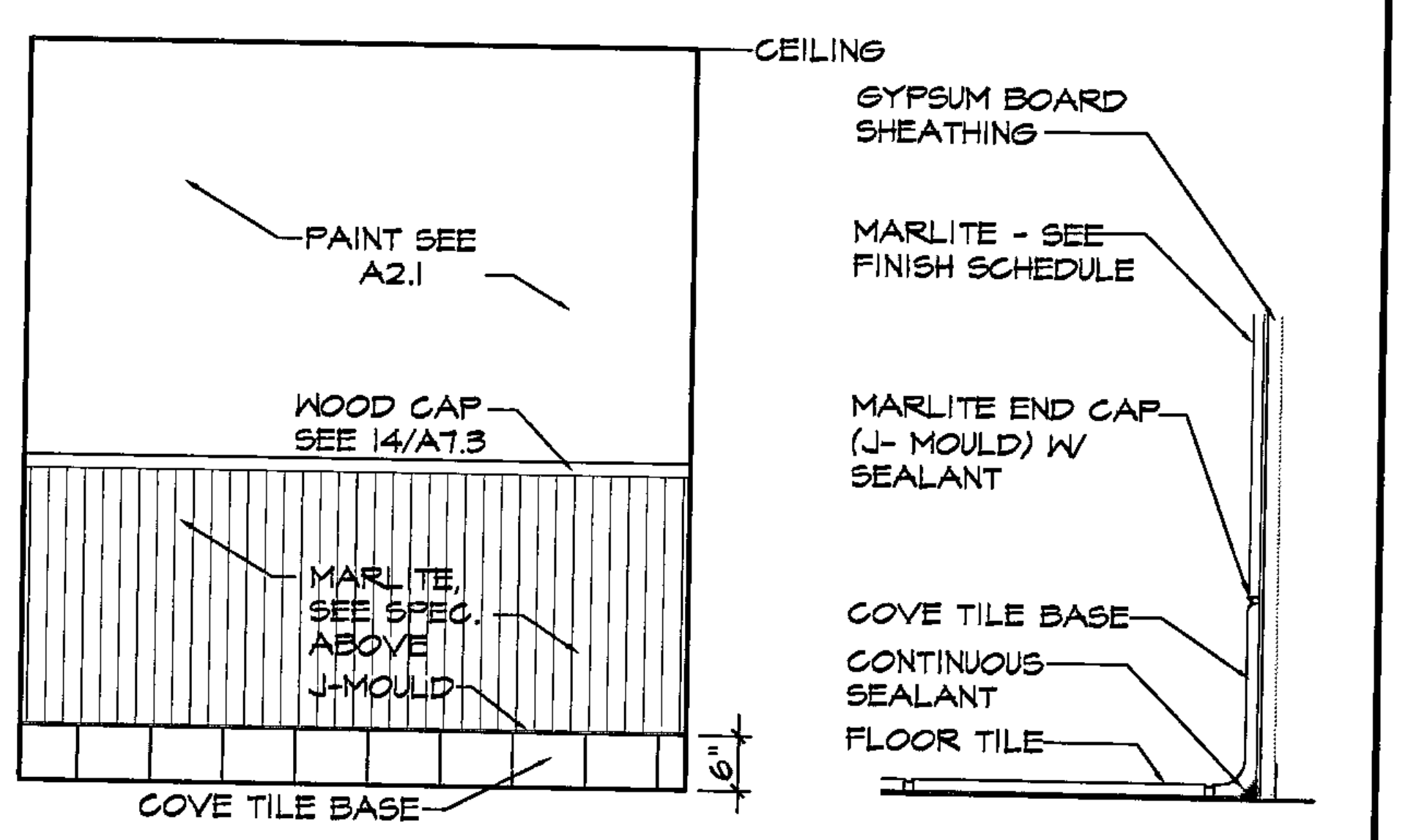

5/8" GYPSUM BOARD, FINISH AS SCHEDULED
METAL STUD FRAMING
CENTERLINE OF WALL AND MULLION
ALUM. CAP TO MATCH STOREFRONT FRAME
EDGE OF WALL CAP BELOW
FACE OF GYP BD. WALL BELOW
℄ OF MULLION
STOREFRONT SYSTEM W/ ANODIZED FINISH

08 WALL @ WINDOW MULLION DETAIL

SCALE: 1-1/2" = 1'-0"

MARLITE SPEC:
1/4" MARLITE NO. 5446-SV2 "MORNING HAZE"

TILE SPEC:
TYPE: COVE WALL TILE
SIZE: 6x12 GRANITI
TILE: CC19CB
GROUT: MFGR. PBG1925 "PEWTER"

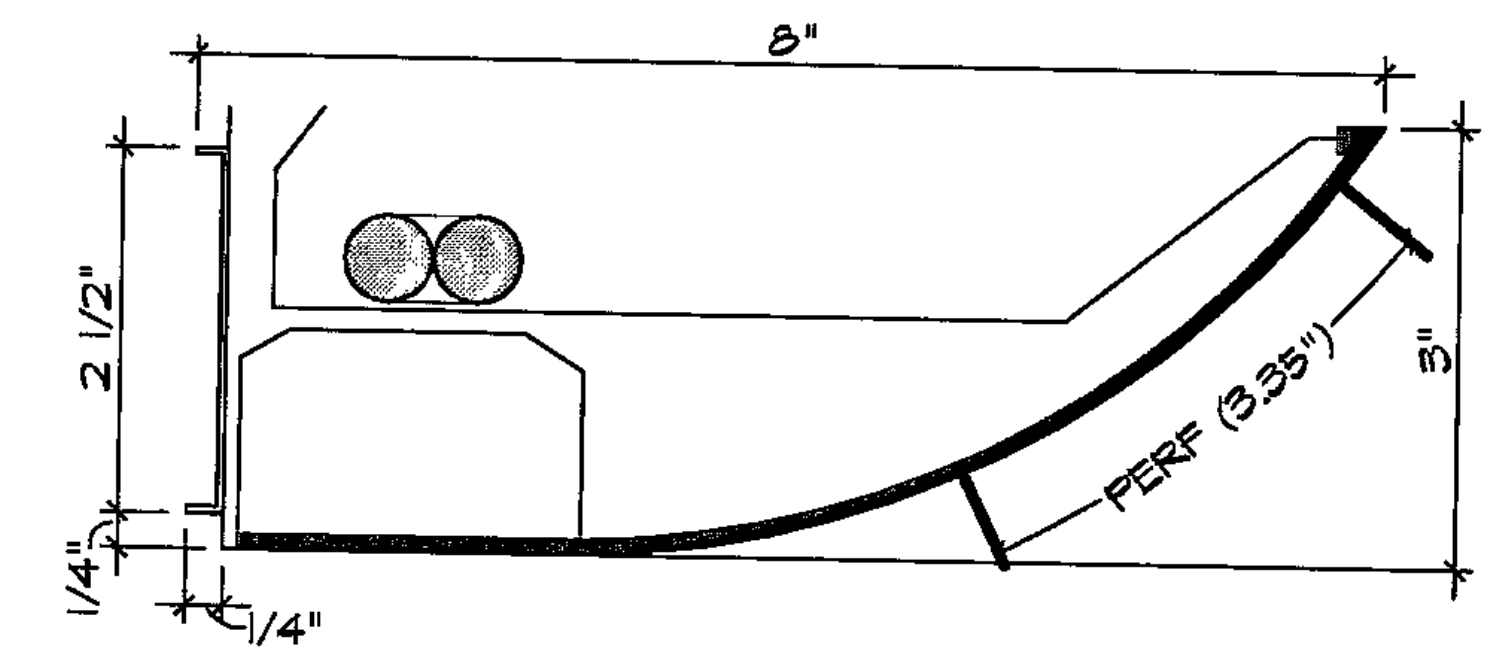


04 MARLITE COVE WALL DETAIL

SCALE: N.T.S.

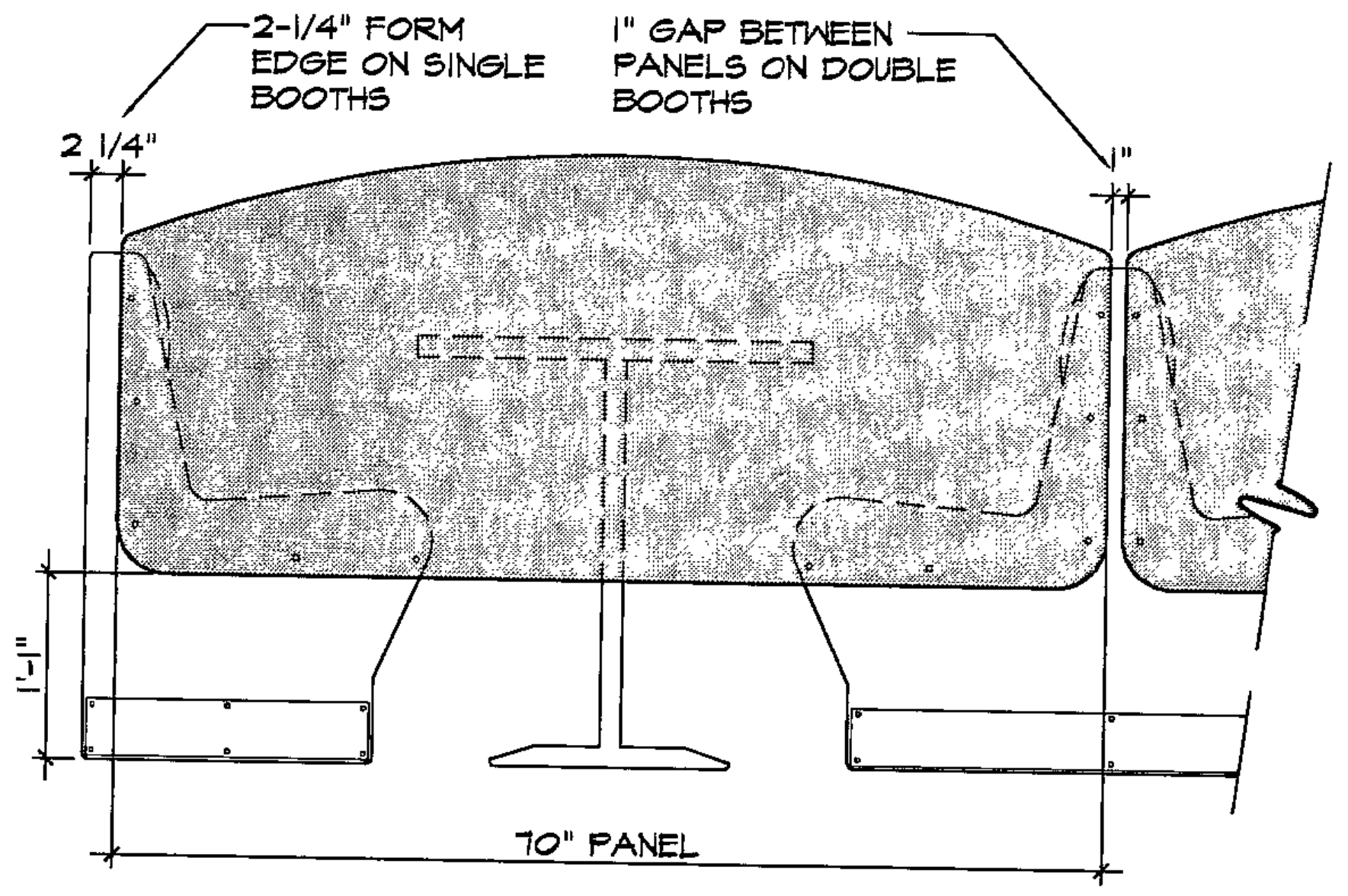
WALL MOUNT LIGHT: RESTROOMS TO RECEIVE NEW WALL SCONCE AS INDICATED BELOW:
TYPE: LP-22
DESCRIPTION: 4'-0" WALL MOUNT
MANUFACTURE & CATALOG #: LIGHTOLIER LP-22 2LT T5
BALLAST: 1 ELEC
LAMPS: 2
LAMP: T5

GENERAL NOTES:
1. PROVIDE BLOCKING IN WALL AS REQUIRED FOR LIGHT FIXTURE SUPPORT



02 RESTROOM LIGHT VALANCE

SCALE: 6" = 1'-0"


2-1/4" FORM EDGE ON SINGLE BOOTHS
1" GAP BETWEEN PANELS ON DOUBLE BOOTHS
2 1/4"
1"
1'-1"
70" PANEL

NOTE: BOOTHS TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C.

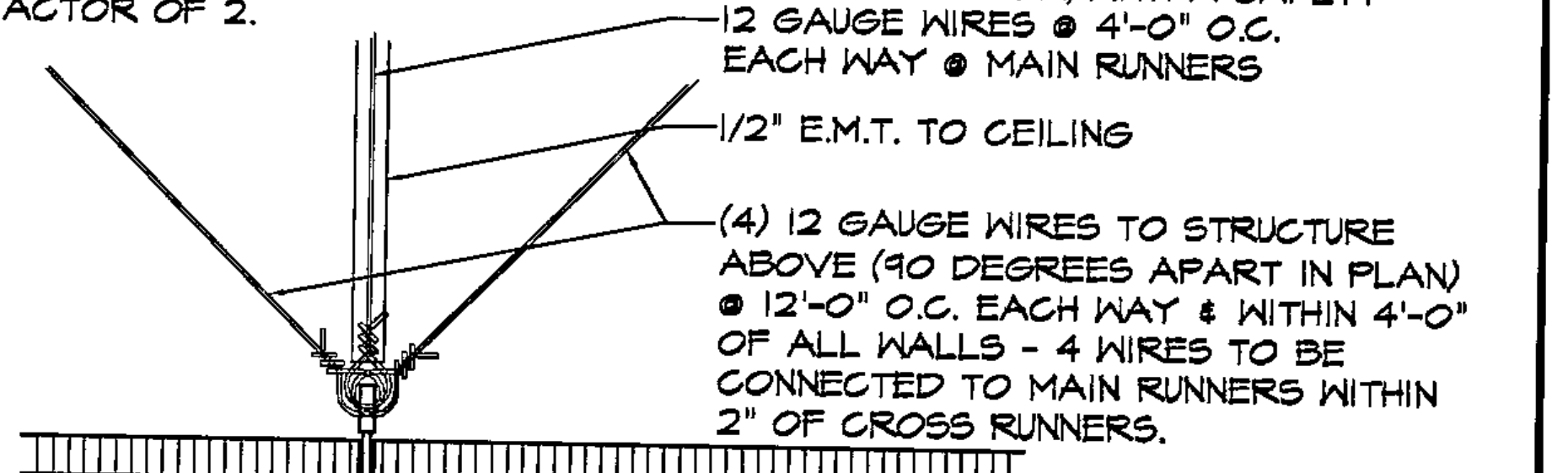
12 TYP. BOOTH DIVIDING PANELS

SCALE: 3/4" = 1'-0"

CEILING BRACING NOTES (WHERE REQUIRED PER SEISMIC ZONE)

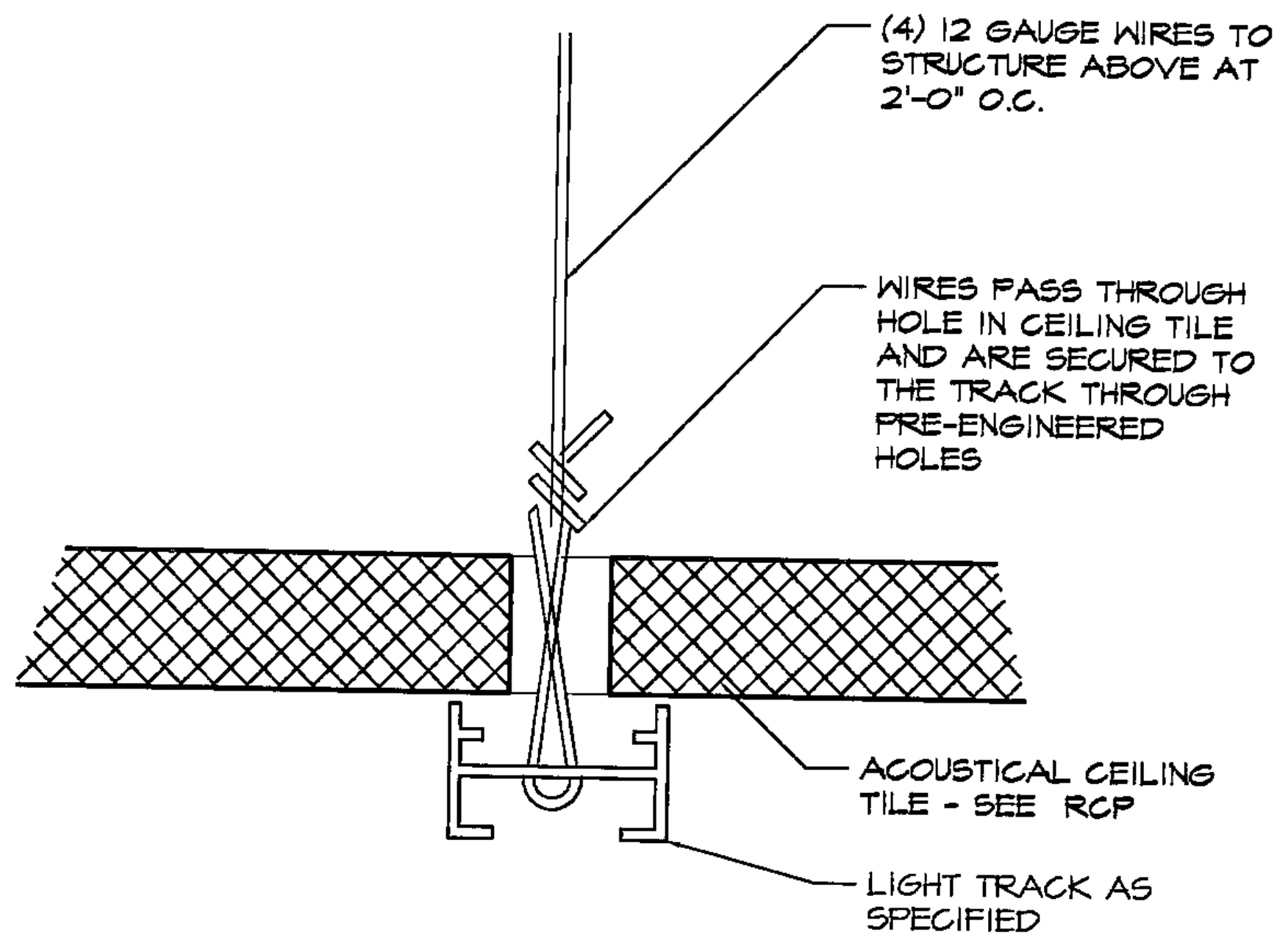
1). FOUR NO. 12 GAUGE WIRES MUST BE SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6 FEET FROM EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED.

2). LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6 INCHES FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCES. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.


12 GAUGE WIRES @ 4'-0" O.C. EACH WAY @ MAIN RUNNERS
1/2" E.M.T. TO CEILING
(4) 12 GAUGE WIRES TO STRUCTURE ABOVE (90 DEGREES APART IN PLAN) @ 12'-0" O.C. EACH WAY & WITHIN 4'-0" OF ALL WALLS - 4 WIRES TO BE CONNECTED TO MAIN RUNNERS WITHIN 2" OF CROSS RUNNERS.

09 CEILING LATERIAL TIE DETAIL

SCALE: N.T.S.

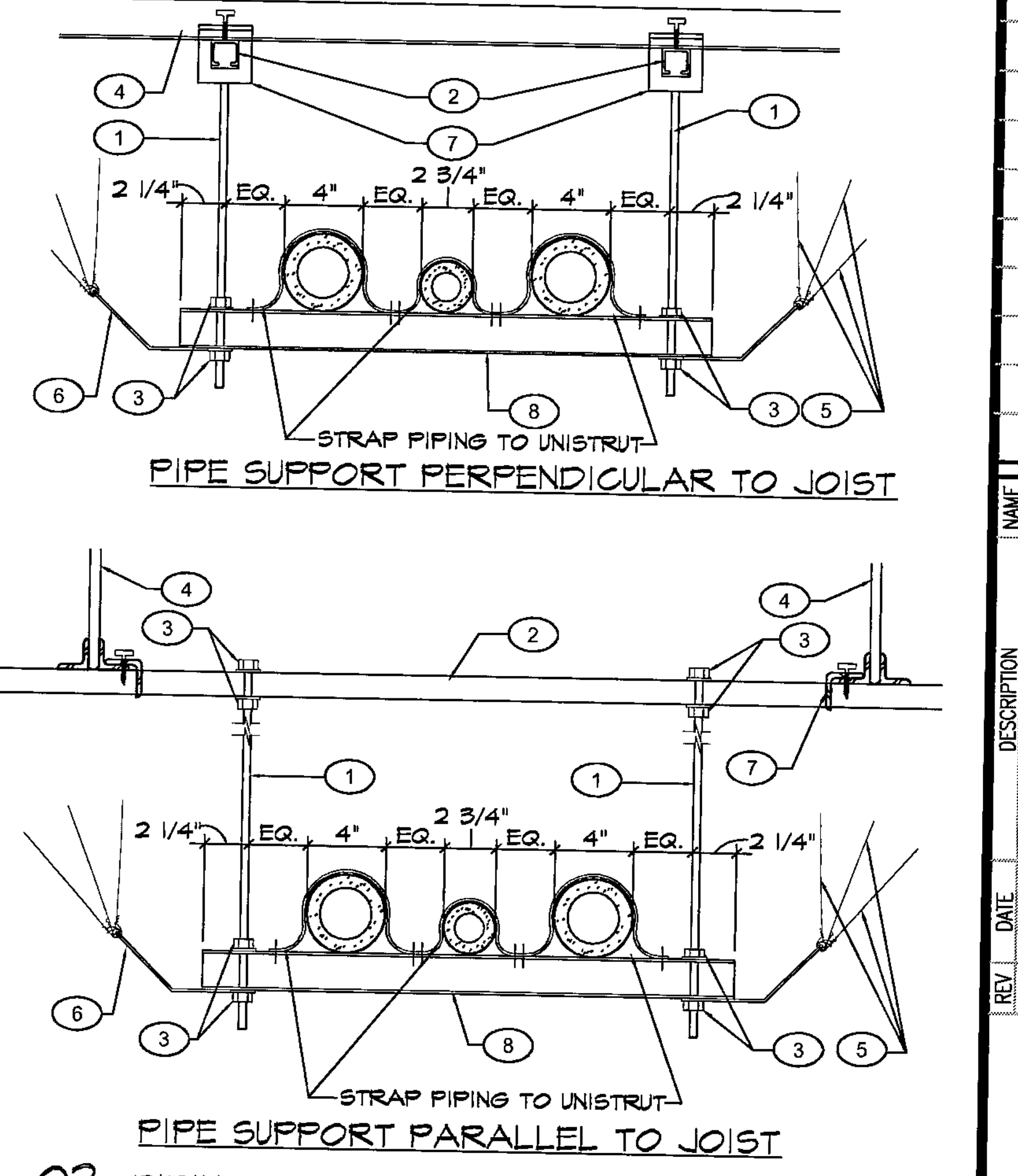

(4) 12 GAUGE WIRES TO STRUCTURE ABOVE AT 2'-0" O.C.
WIRES PASS THROUGH HOLE IN CEILING TILE AND ARE SECURED TO THE TRACK THROUGH PRE-ENGINEERED HOLES
ACOUSTICAL CEILING TILE - SEE RCP
LIGHT TRACK AS SPECIFIED

05 TRACK LIGHTING DETAIL

SCALE: N.T.S.

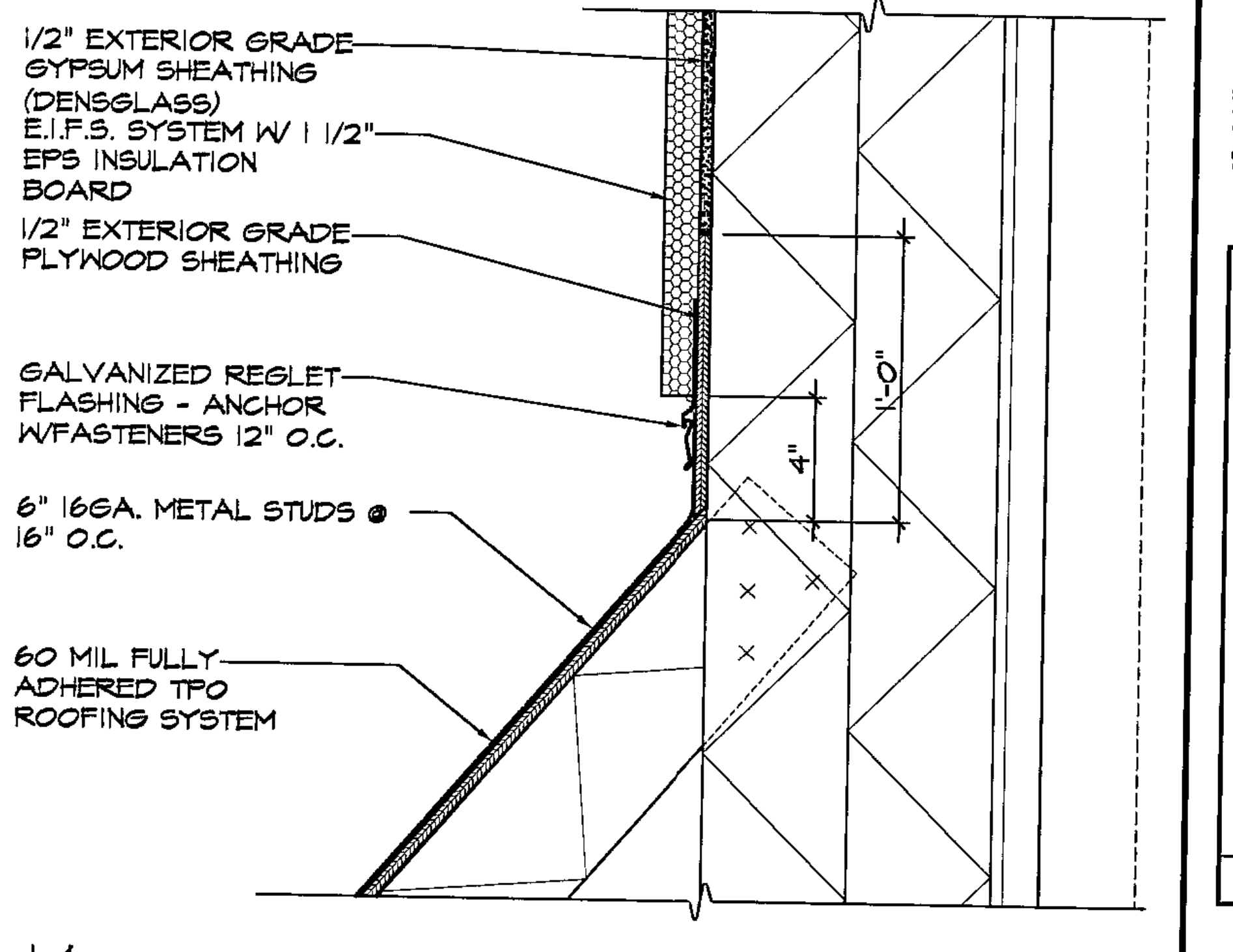
NOTES:

1. ALL THREAD SIZE BASED ON LOAD.
2. 1-1/2" UNISTRUT SPANNED BETWEEN JOISTS
3. NUT & 5/8" FLAT WASHER
4. STEEL JOIST
5. (3) 8GA. TIE WIRES:
    (1) ONE LINE PARALLEL TO LINE OF BOTTOM BAR FO TRAPEZE
    (2) TWO LINES AT 45° TO LINE OF BOTTOM OF TRAPEZE. (ON EACH SIDE OF TRAPEZE.)
6. UNISTRUT ANGLE P1546
7. UNISTRUT CLAMP P1796S WITH SET SCREW
8. 1-1/2" PIERCED UNISTRUT


①
②
③
④
⑤
⑥
⑦
⑧
2 1/4"
EQ.
4"
2 3/4"
STRAP PIPING TO UNISTRUT
PIPE SUPPORT PERPENDICULAR TO JOIST
PIPE SUPPORT PARALLEL TO JOIST

03 PIPING SUPPORT DETAIL

SCALE: 1-1/2" = 1'-0"

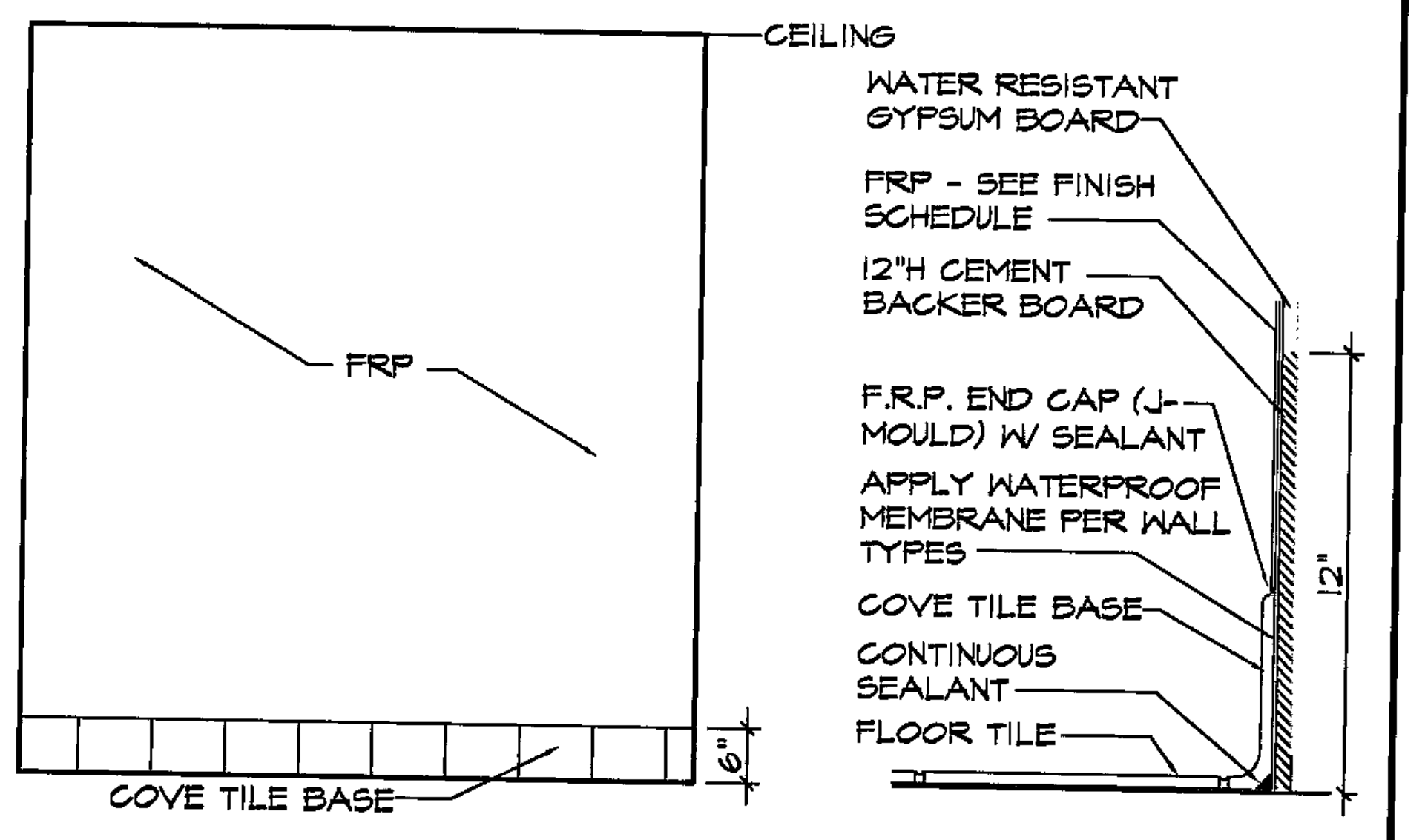

1/2" EXTERIOR GRADE GYPSUM SHEATHING (DENSGLASS)
E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD
1/2" EXTERIOR GRADE PLYWOOD SHEATHING
GALVANIZED REGLET FLASHING - ANCHOR W/FASTENERS 12" O.C.
6" 16GA. METAL STUDS @ 16" O.C.
60 MIL FULLY ADHERED TPO ROOFING SYSTEM
4"
1'-0"

14 FLASHING @ KICKER

SCALE: 1-1/2" = 1'-0"

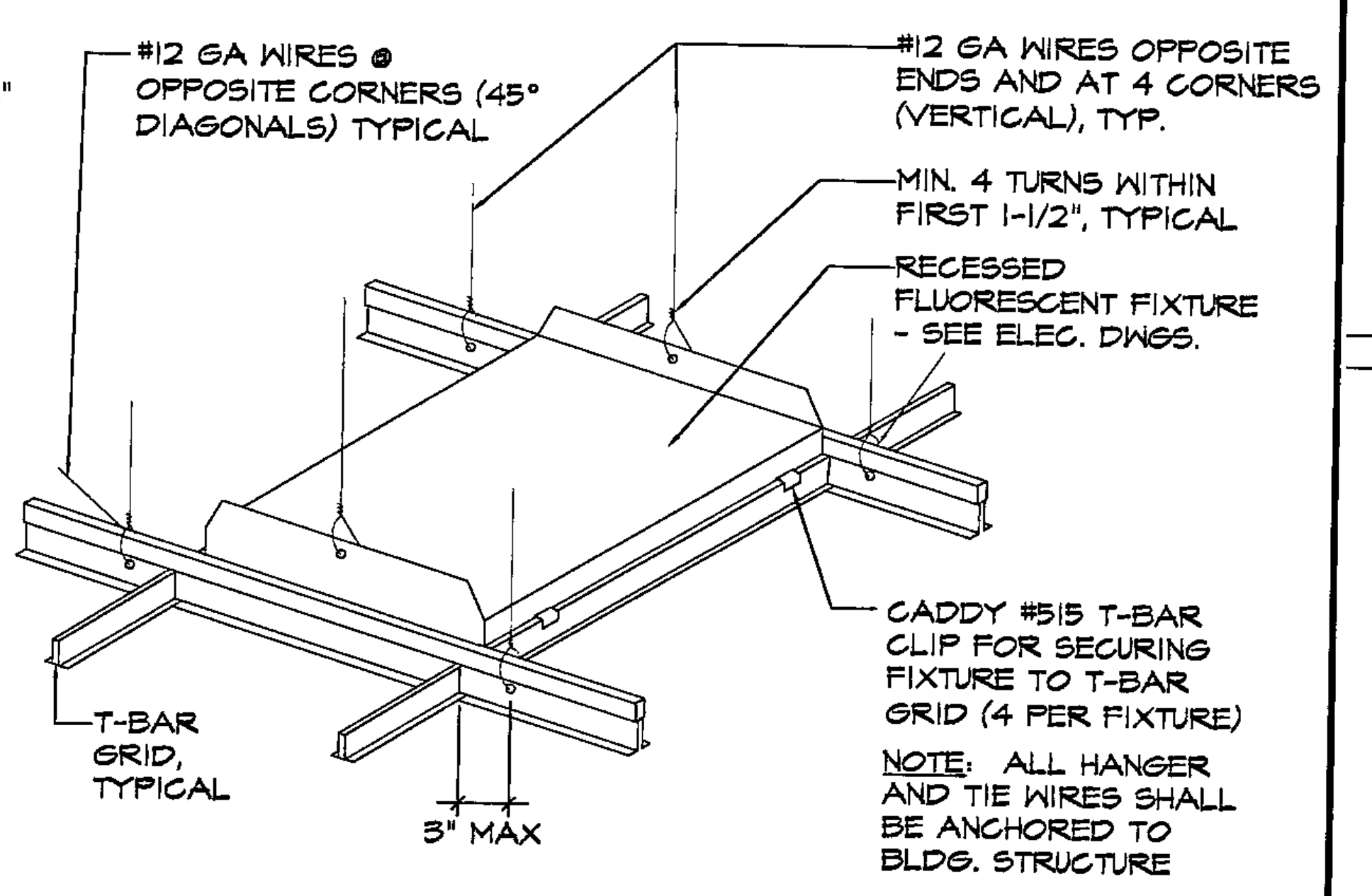
FRP SPEC:
KEMLITE .09 THK FIBERGLASS REINFORCED PANELS - WHITE

TILE SPEC:
TYPE: COVE WALL TILE
SIZE: 6x12 GRANITI
TILE: CC19CCB
GROUT: MFGR. PBG1925 "PEWTER"


CEILING
FRP
COVE TILE BASE
6"
WATER RESISTANT GYPSUM BOARD
FRP - SEE FINISH SCHEDULE
12"H CEMENT BACKER BOARD
F.R.P. END CAP (J-MOULD) W/ SEALANT
APPLY WATERPROOF MEMBRANE PER WALL TYPES
COVE TILE BASE
CONTINUOUS SEALANT
FLOOR TILE
12"

10 KITCHEN FRP COVE WALL DETAIL

SCALE: N.T.S.


#12 GA WIRES @ OPPOSITE CORNERS (45° DIAGONALS) TYPICAL
#12 GA WIRES OPPOSITE ENDS AND AT 4 CORNERS (VERTICAL), TYP.
MIN. 4 TURNS WITHIN FIRST 1-1/2", TYPICAL
RECESSED FLUORESCENT FIXTURE - SEE ELEC. DWGS.
CADDY #515 T-BAR CLIP FOR SECURING FIXTURE TO T-BAR GRID (4 PER FIXTURE)
T-BAR GRID, TYPICAL
3" MAX

NOTE: ALL HANGER AND TIE WIRES SHALL BE ANCHORED TO BLDG. STRUCTURE

06 TYPICAL LIGHT FIXTURE BRACING

SCALE: N.T.S.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2965
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCK E. CHEESE'S
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SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

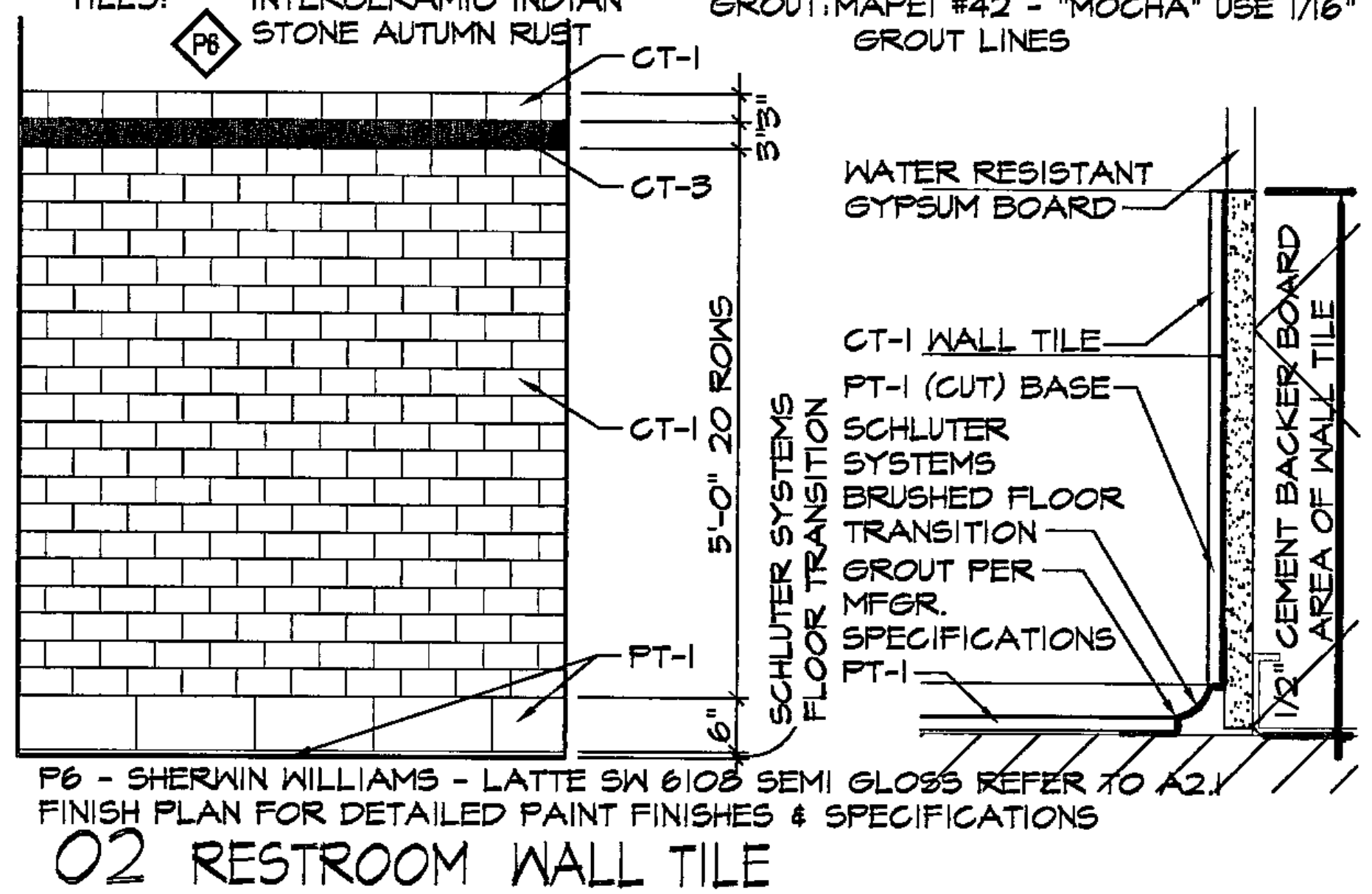
DETAILS

A7.4

CT-1 TYPE: WALL TILE (FIELD)
SIZE: 3"X6"
TILES: INTERCERAMIC BRITE ALMOND
GROUT: MAPEI #15 BONE

CT-3 TYPE: WALL TILE (ACCENT)
SIZE: 3"X6"
TILES: INTERCERAMIC INDIAN STONE AUTUMN RUST

PT-1 TYPE: FLOOR TILE & BASE
SIZE: 20"X20 (TILE)
TILES: INTERCERAMIC INDIAN STONE AUTUMN RUST (INSTALL AT DIAGONAL)
SIZE: 13"X13" CUT (FINISH SIZE 6"X13")
BASE: INTERCERAMIC INDIAN STONE
GROUT: MAPEI #42 - "MOCHA" USE 1/16" GROUT LINES


P6
CT-1
CT-3
CT-1
PT-1
3"
3"
5'-0" 20 ROWS
6"
SCHLUTER SYSTEMS FLOOR TRANSITION
WATER RESISTANT GYPSUM BOARD
CT-1 WALL TILE
PT-1 (CUT) BASE
SCHLUTER SYSTEMS BRUSHED FLOOR TRANSITION
GROUT PER MFGR. SPECIFICATIONS
PT-1
1/2" CEMENT BACKER BOARD AREA OF WALL TILE

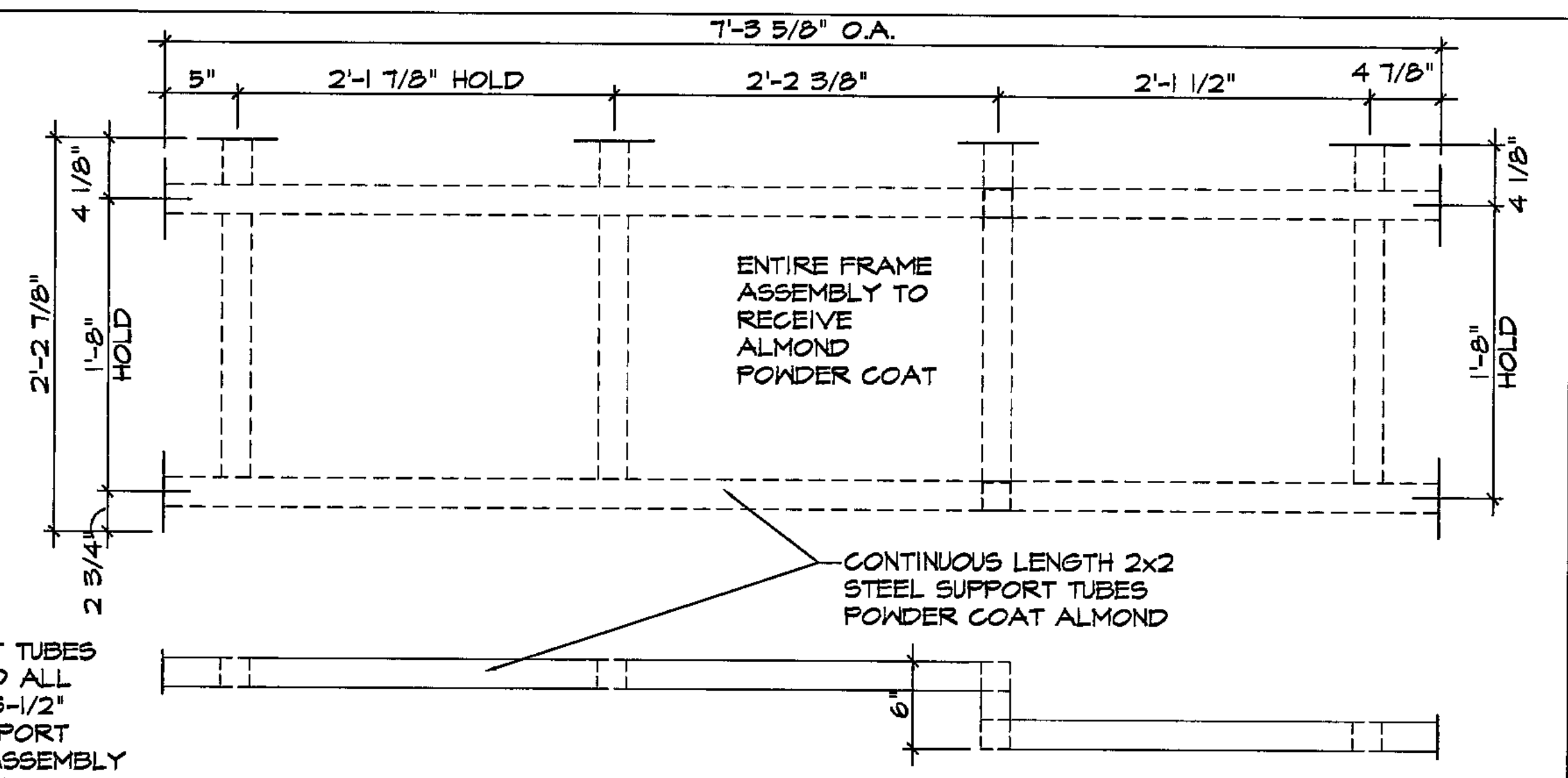
P6 - SHERWIN WILLIAMS - LATTE SW 6108 SEMI GLOSS REFER TO A2.1 FINISH PLAN FOR DETAILED PAINT FINISHES & SPECIFICATIONS

02 RESTROOM WALL TILE

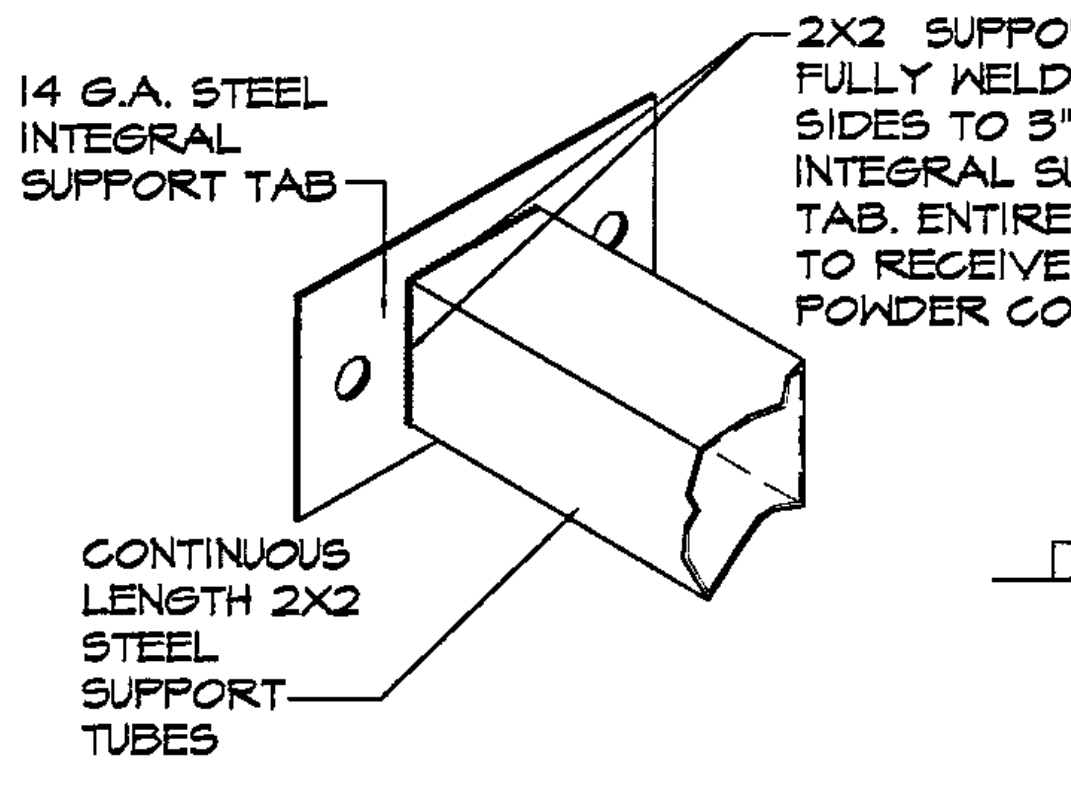
SCALE: 1/2" = 1'-0"

NOTE:
EXISTING WALL CONSTRUCTION ASSUMED TO BE 5/8" GREEN BOARD WITH 1/4" TILE APPLIED TO STUD FRAMING.

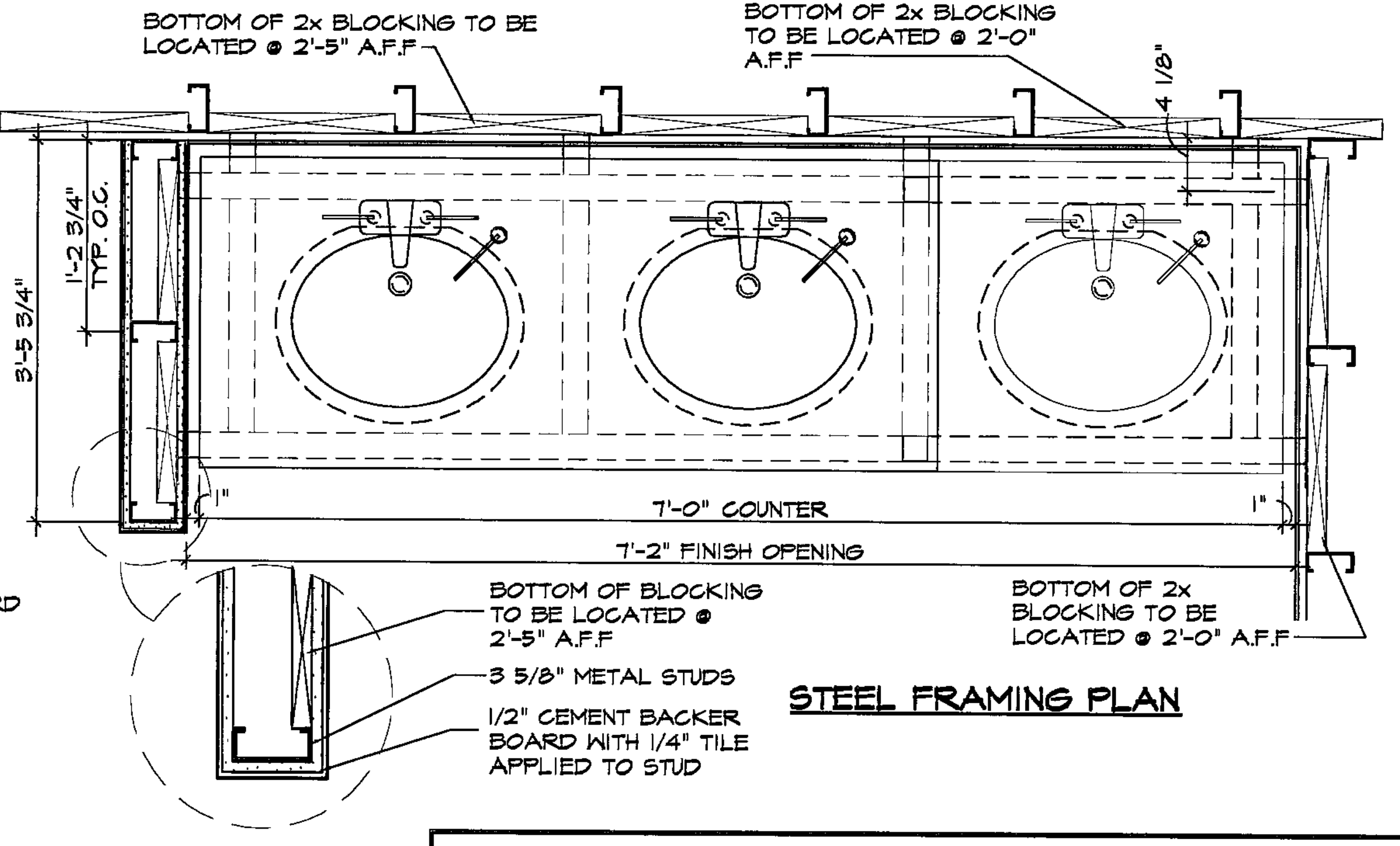
NOTE:
ALL TUBING TO BE 2X2 S.Q. 16GA. COLD ROLL STEEL. CAP ALL EXPOSED ENDS OF TUBE. ALL CORNERS TO BE MITERED FULLY WELDED AND GROUND SMOOTH. POWDER COAT ALMOND.


7'-3 5/8" O.A.
5"
2'-1 7/8" HOLD
2'-2 3/8"
2'-1 1/2"
4 7/8"
4 1/8"
2'-2 7/8"
1'-8" HOLD
2 3/4"
4 1/8"
1'-8" HOLD
ENTIRE FRAME ASSEMBLY TO RECEIVE ALMOND POWDER COAT
CONTINUOUS LENGTH 2x2 STEEL SUPPORT TUBES POWDER COAT ALMOND
6"

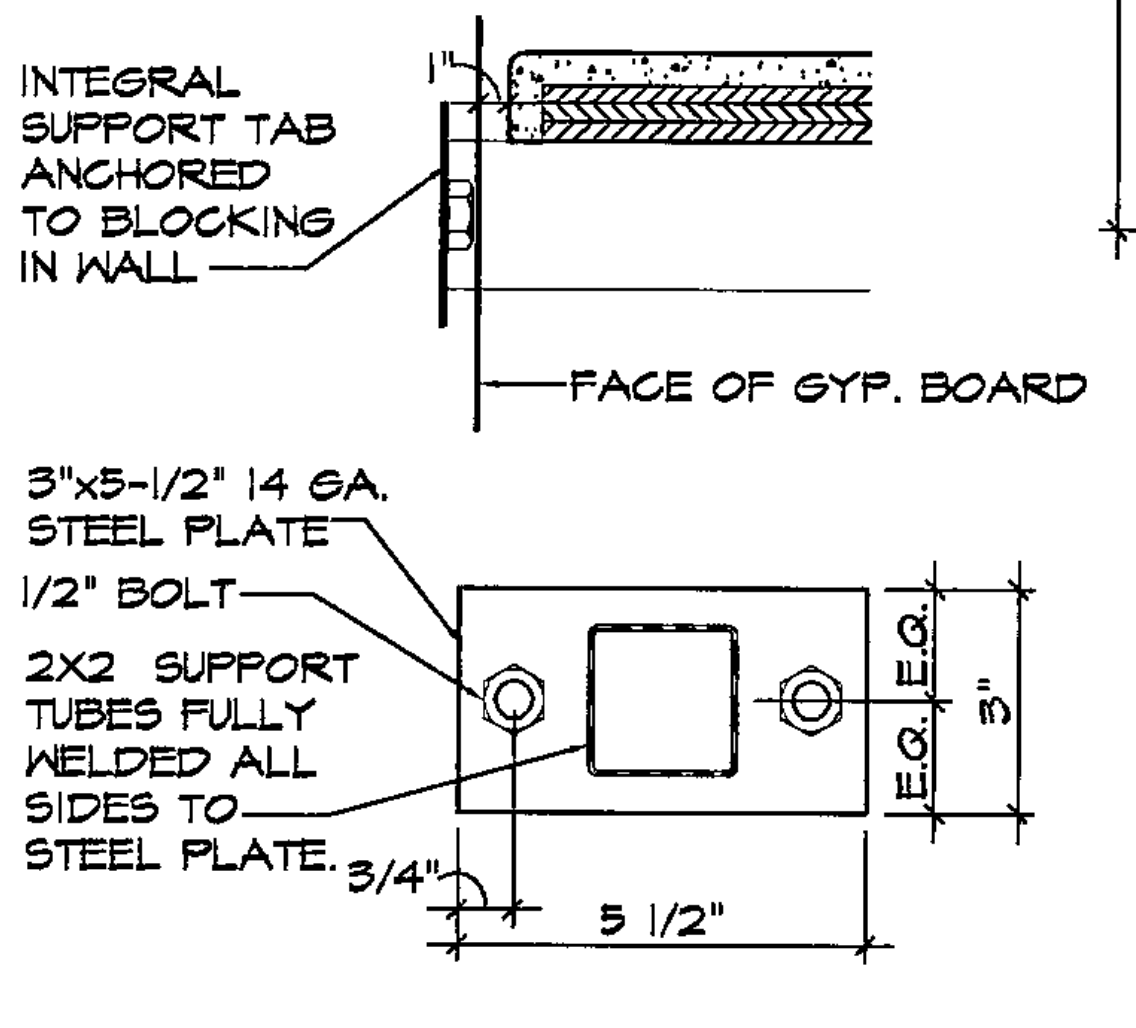
STEEL FRAMING ELEVATION


14 G.A. STEEL INTEGRAL SUPPORT TAB
2X2 SUPPORT TUBES FULLY WELDED ALL SIDES TO 3"X5-1/2" INTEGRAL SUPPORT TAB. ENTIRE ASSEMBLY TO RECEIVE ALMOND POWDER COAT
CONTINUOUS LENGTH 2X2 STEEL SUPPORT TUBES

INTEGRAL SUPPORT TAB ISO


BOTTOM OF 2x BLOCKING TO BE LOCATED @ 2'-5" A.F.F
BOTTOM OF 2x BLOCKING TO BE LOCATED @ 2'-0" A.F.F
4 1/8"
1'-2 3/4" TYP. O.C.
3'-5 3/4"
1"
7'-0" COUNTER
1"
7'-2" FINISH OPENING
BOTTOM OF BLOCKING TO BE LOCATED @ 2'-5" A.F.F
3 5/8" METAL STUDS
1/2" CEMENT BACKER BOARD WITH 1/4" TILE APPLIED TO STUD
BOTTOM OF 2x BLOCKING TO BE LOCATED @ 2'-0" A.F.F

STEEL FRAMING PLAN

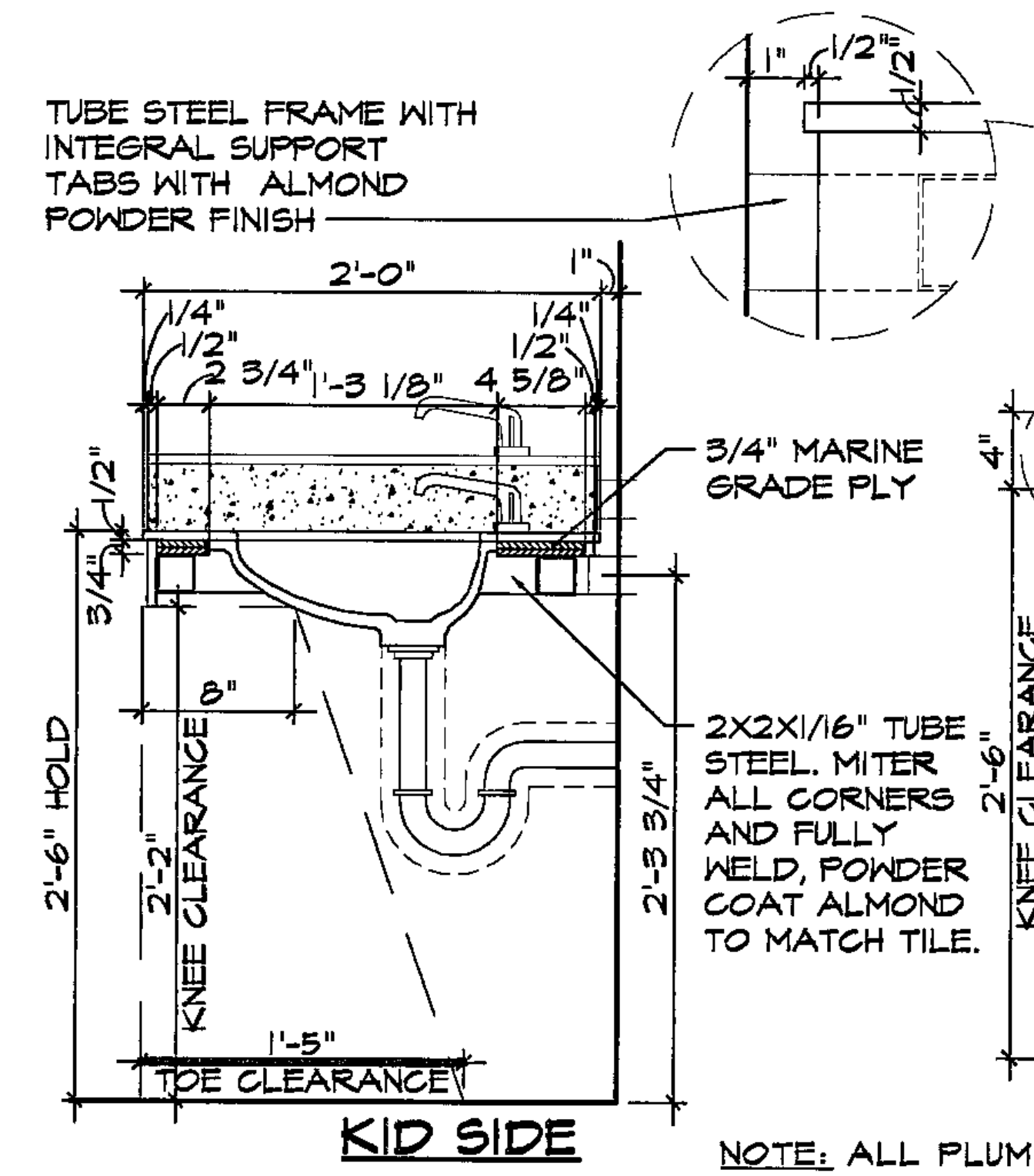

INTEGRAL SUPPORT TAB ANCHORED TO BLOCKING IN WALL
1"
FACE OF GYP. BOARD
3"x5-1/2" 14 GA. STEEL PLATE
1/2" BOLT
2X2 SUPPORT TUBES FULLY WELDED ALL SIDES TO STEEL PLATE.
3/4"
5 1/2"
E.Q.
E.Q.
3"

INTEGRAL SUPPORT TAB

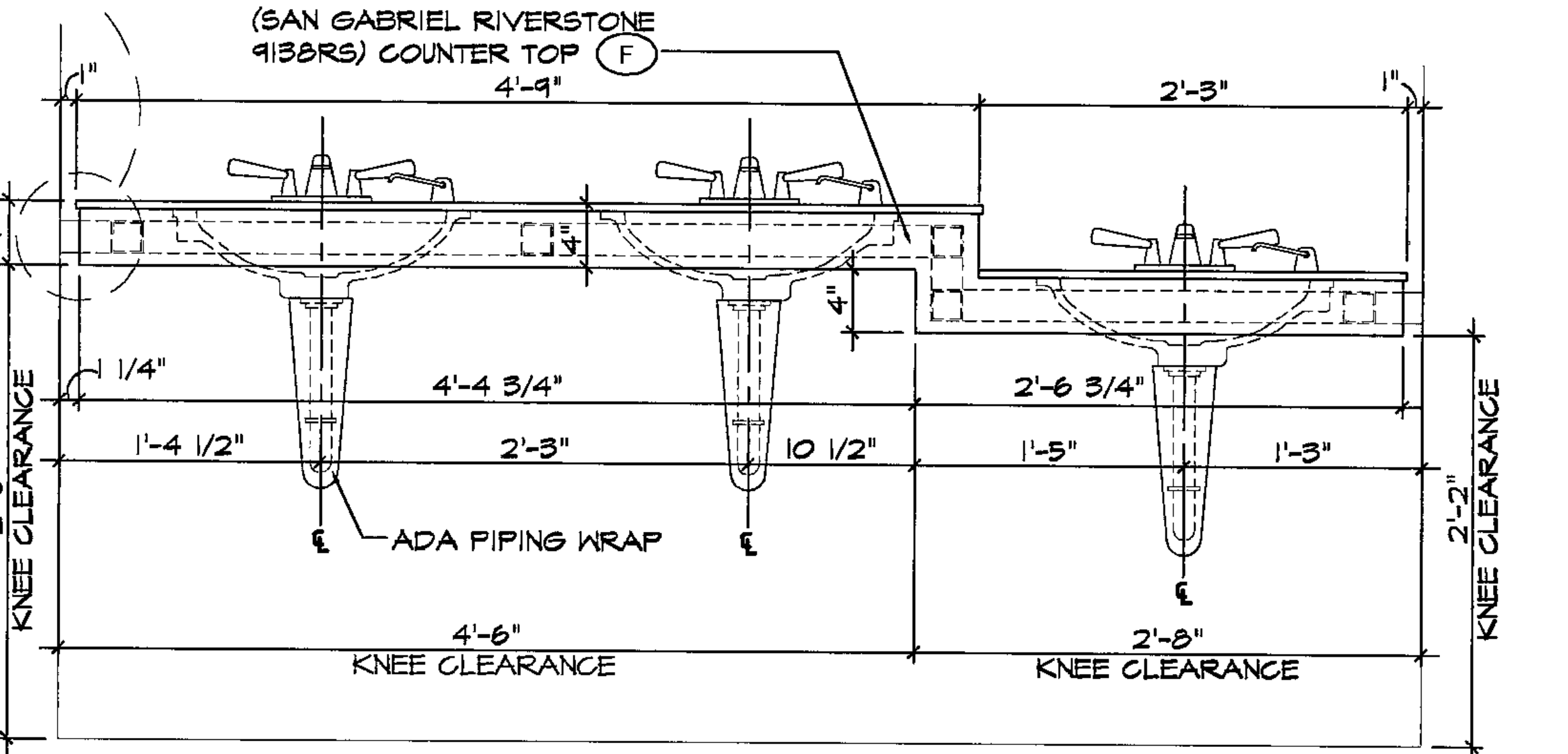
SINK,FAUCET, & HARDWARE SPEC:
WILSONART BV123 COLOR: (CREAM) INTEGRAL MOUNT LAV. WITH AMERICAN STANDARD MONTERREY NO. 5501.170 FAUCET WITH CONVENTIONAL SPOUT, GRID DRAIN, WITH 4 IN. WRIST BLADE HANDLES, 002 17 GA. CHROME FINISH, MCGUIRE SUPPLIES AND STOPS, 1 ? IN. P-TRAP, HANDICAP ACCESSIBLE.

TYPICAL RESTROOM ACCESSORIES

MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQUIRED BLOCKING	REMARKS
Ⓕ	WILSONART COUNTER	SAN GABRIEL RIVERSTONE - 9138RS SOLID SURFACE	G.C.	G.C.	X	
Ⓖ	WILSONART - SINK	BV-123 CREAM	G.C.	G.C.	X	INTEGRAL MOUNT
Ⓗ	BRADLEY	FAUCET MODEL: 553-313	G.C.	G.C.		
Ⓙ	BRADLEY	SOAP DISPENSER MODEL: 6324-000000	G.C.	G.C.		

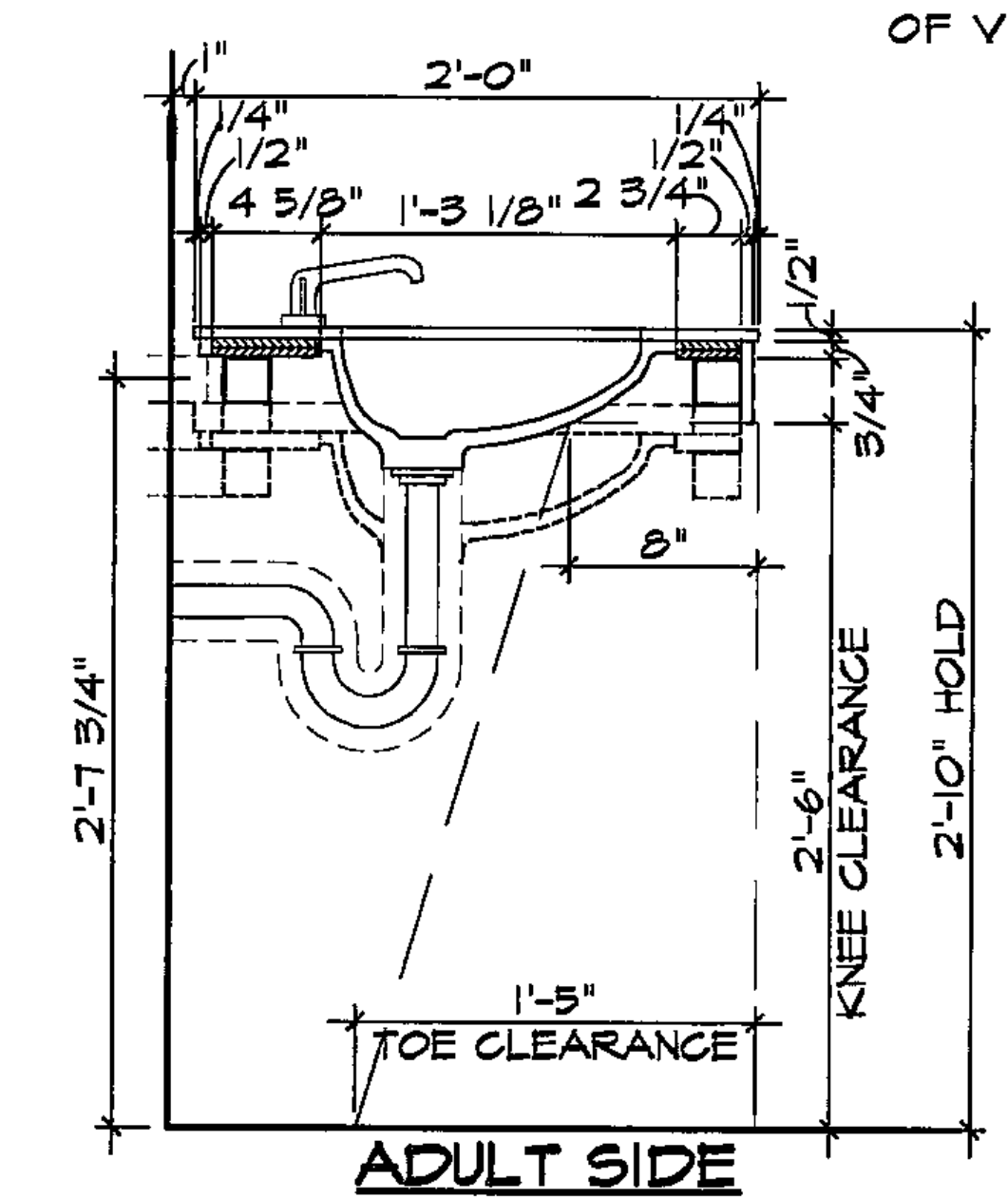

TUBE STEEL FRAME WITH INTEGRAL SUPPORT TABS WITH ALMOND POWDER FINISH
1"
1/2"
1/2"
2'-0"
1"
1/4"
1/2"
2 3/4"
1'-3 1/8"
4 5/8"
1/4"
1/2"
1/2"
3/4"
3/4" MARINE GRADE PLY
8"
2'-6" HOLD
2'-2" KNEE CLEARANCE
2'-3 3/4"
2X2X1/16" TUBE STEEL. MITER ALL CORNERS AND FULLY WELD, POWDER COAT ALMOND TO MATCH TILE.
1'-5"
TOE CLEARANCE

KID SIDE

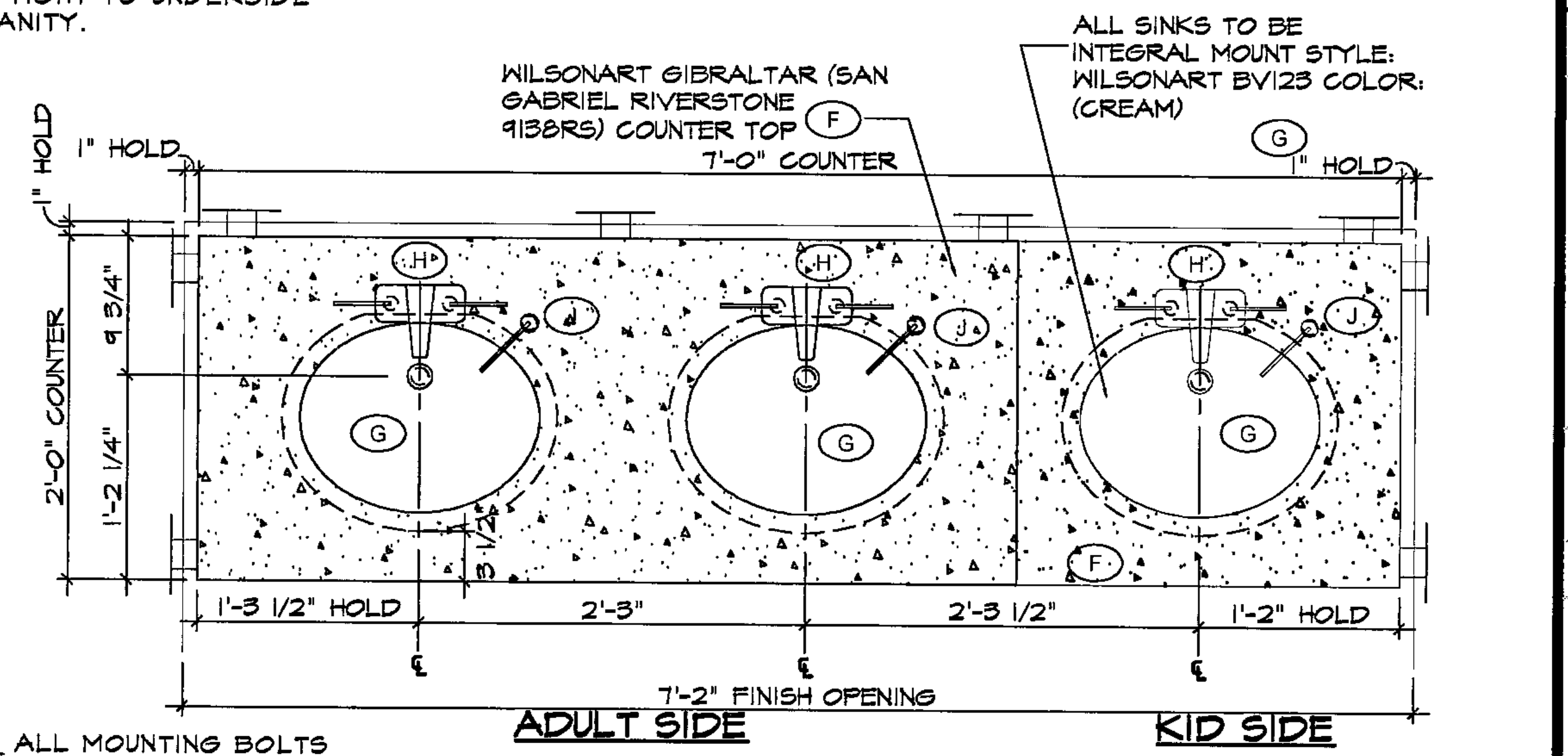


FRONT ELEVATION

NOTE: ALL PLUMBING TO BE HELD TIGHT TO UNDERSIDE OF VANITY.



ADULT SIDE



ADULT SIDE

KID SIDE

NOTE: ALL MOUNTING BOLTS TO BE CONCEALED BEHIND GYP. BOARD

01 THREE-BOWL RESTROOM SINK DETAIL - 7'-2" WIDE (ACCESSIBLE) (TYP.)

SCALE: 1" = 1'-0"

REGISTRATION SEAL
FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995

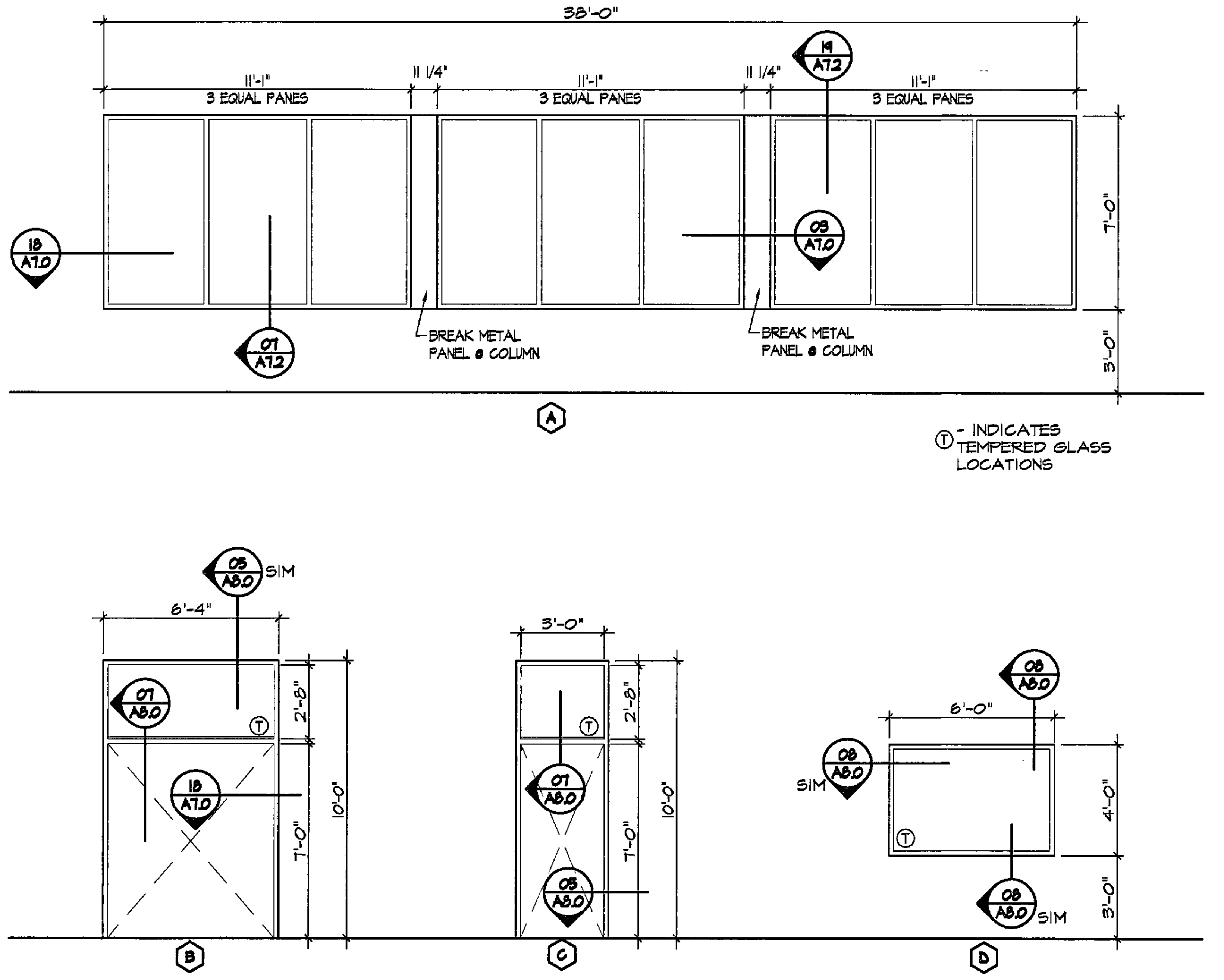
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10
INTERIOR DETAILS

A7.5



Ⓣ - INDICATES TEMPERED GLASS LOCATIONS

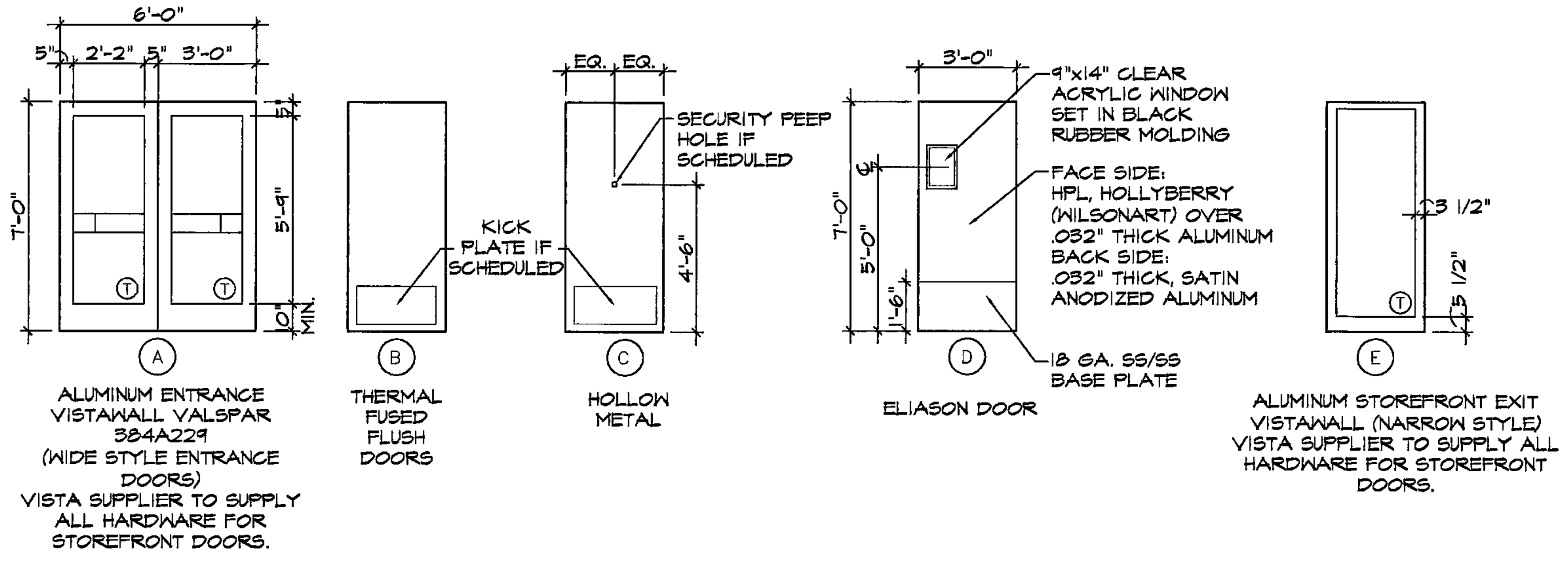
WINDOW TYPES

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

DOOR #	DOOR LOCATION	OPENING SIZE	THICKNESS	DOOR			FRAME			SEAL REQ'D			DETAILS			REMARKS
				TYPE	HARDWARE	FINISH	ALUMINUM	HM	FINISH	WEATHER	SOUND	LIGHT	JAMB	HEAD	SILL	
01	FRONT ENTRANCE	3'-0"x7'-0" PR	1 3/4"	A	1	KYNAR	X		DRK.BR	X			18/A7.0	07/A8.0	02/A8.0	VISTAWALL CUSTOM CEC RED (DOORS)
02	STOREFRONT EXIT	3'-0"x7'-0"	1 3/4"	E	12	DRK.BR	X		DRK.BR	X			18/A7.0	07/A8.0	02/A8.0	
03	REAR EXIT	3'-0"x7'-0"	1 3/4"	C	4	P-2		X	P-2	X			05/A8.0	06/A8.0	02/A8.0	
04	REAR EXIT	3'-0"x7'-0"	1 3/4"	C	5	P-2		X	P-2	X			05/A8.0	06/A8.0	02/A8.0	
05	KITCHEN SERVICE	3'-8"x7'-0"	1 3/4"	C	4	P-2		X	P-2	X			05/A8.0	06/A8.0	02/A8.0	W/FISHEYE PEEP HOLE (180 VIEW), DOOR BELL
06	VESTIBULE ENTRANCE	3'-0"x7'-0" PR	1 3/4"	A	2	KYNAR	X		DRK.BR	X			09/A8.0	15/A7.1	-	VISTAWALL CUSTOM CEC RED (DOORS)
07	CLOSET/COSTUME	3'-0"x7'-0"	1 3/4"	B	14	PL-1		X	P-3				03/A8.0	03/A8.0	-	UNDERCUT DOOR 1" FROM FINISH FLOOR
08	A/V ROOM	3'-0"x7'-0"	1 3/4"	B	9	PL-1		X	P-3				03/A8.0	03/A8.0	-	UNDERCUT DOOR 1" FROM FINISH FLOOR
09	UTILITY ROOM	3'-0"x7'-0"	1 3/4"	B	10	PL-1		X	P-3		X		03/A8.0	03/A8.0	-	PROVIDE SIGNAGE AS REQ'D BY CODE
10	ELECTRICAL ROOM	3'-0"x7'-0"	1 3/4"	B	10	PL-1		X	P-3				03/A8.0	03/A8.0	-	PROVIDE SIGNAGE AS REQ'D BY CODE
11	TECH. ROOM	3'-0"x7'-0"	1 3/4"	B	10	PL-1		X	P-3				03/A8.0	03/A8.0	-	UNDERCUT DOOR 1" FROM FINISH FLOOR
12	TRAFFIC	3'-0"x7'-0"	1"	D	3	HPL		X	HPL				04/A8.0	04/A8.0	-	ELIASON DOOR
13	OFFICE	3'-0"x7'-0"	1 3/4"	C	9	P-2		X	P-2				03/A8.0	03/A8.0	-	W/FISHEYE PEEP HOLE (180 VIEW)
14	STORAGE	3'-0"x7'-0"	1 3/4"	C	10	P-2		X	P-2				03/A8.0	03/A8.0	-	
15	SPRINKLER	3'-0"x7'-0"	1 3/4"	B	10	P-2		X	P-2				03/A8.0	03/A8.0	-	

ABBREVIATIONS: PR - PAIR
DRK. BR. - DARK BRONZE
P - PAINTED
PL - PLASTIC LAMINATE
HPL - HIGH PERFORMANCE PLASTIC LAMINATE



6'-0"
5"
2'-2"
5"
3'-0"
7'-0"
5'-9"
10" MIN.
KICK PLATE IF SCHEDULED
EQ.
EQ.
SECURITY PEEP HOLE IF SCHEDULED
4'-6"
3'-0"
9"x14" CLEAR ACRYLIC WINDOW SET IN BLACK RUBBER MOLDING
FACE SIDE: HPL, HOLLYBERRY (WILSONART) OVER .032" THICK ALUMINUM BACK SIDE: .032" THICK, SATIN ANODIZED ALUMINUM
18 GA. SS/SS BASE PLATE
5'-0"
1'-6"
3 1/2"
5 1/2"
A
B
C
D
E

A: ALUMINUM ENTRANCE VISTAWALL VALSPAR 384A229 (WIDE STYLE ENTRANCE DOORS) VISTA SUPPLIER TO SUPPLY ALL HARDWARE FOR STOREFRONT DOORS.

B: THERMAL FUSED FLUSH DOORS

C: HOLLOW METAL

D: ELIASON DOOR

E: ALUMINUM STOREFRONT EXIT VISTAWALL (NARROW STYLE) VISTA SUPPLIER TO SUPPLY ALL HARDWARE FOR STOREFRONT DOORS.

DOOR TYPES

SCALE: 1/4" = 1'-0"

HARDWARE SCHEDULE

FDAFDDFJAL

HARDWARE SET NO.1 ENTRY / VESTIBULE DOORS
1 EA. VISTAWALL (834) OP-6 TOP PIVOT
(FRAME) CLR FINISH
1 EA. VISTAWALL (838) OP-7 TOP PIVOT
(DOOR) CLR FINISH
1 EA. VISTAWALL (805/838) OP-10 BOT.
PIVOT (FR) CLR FINISH
1 EA. VISTAWALL (846) OP-9 BOT.
INTERNAL PIVOT CLR FINISH
1 EA. VISTAWALL (12368) PH-21 YB PULL
HANDLE CLR FINISH
1 EA. VON DUPRIN (CD35474A-TL) EXIT
DEV. LESS 386TR US28 FINISH
1 EA. VISTAWALL (198) CY-5 RIM
CYLINDER CLR FINISH
1 EA. VISTAWALL (TH-43) THRESHOLD
MILL FINISH
1 EA. VISTAWALL (4299) V-231 BOTTOM
WEATHERING CLR FINISH
1 EA. LCN 4041 SURFACE
CLOSER CLR FINISH
1 EA. NATIONAL GUARD DOOR SWEEP 200NA X WIDTH CLR FINISH

HARDWARE SET NO.2 ENTRY / VESTIBULE DOORS
1 EA. VISTAWALL (834) OP-6 TOP PIVOT
(FRAME) CLR FINISH
1 EA. VISTAWALL (838) OP-7 TOP PIVOT
(DOOR) CLR FINISH
1 EA. VISTAWALL (805/838) OP-10 BOT.
PIVOT (FR) CLR FINISH
1 EA. VISTAWALL (846) OP-9 BOT.
INTERNAL PIVOT CLR FINISH
1 EA. VISTAWALL (12368) PH-21 YB PULL
HANDLE CLR FINISH
1 EA. VISTAWALL (142) PB-16 PUSH BAR
CLR FINISH
1 EA. LCN 4041 SURFACE
CLOSER CLR FINISH

HARDWARE SET NO.3 TRAFFIC DOORS
ELIASON CORP. MODEL EASY SWING SCP-4 W/ PIVOTAL HINGES, 9"X14" ACRYLIC WINDOW, JAMB GUARDS, 18" STAINLESS STEEL KICKPLATE.

HARDWARE SET NO.4 EXTERIOR KITCHEN SERVICE DOORS
1 EA. VIEW PEEP 180 DEGREE -
1 EA. ROTON HINGE 780-210HD 83" ALUM HAGER
1 EA. CLOSER 4111 H-CUSH #1 ALUM SNB LCN
1 EA. PANIC / ALARM V40 X EB X DOOR SIZE DETEX
1 EA. MORTISE CYL. 20-001 C1223 SCHLAGE
1 EA. THRESHOLD 325 x WIDTH NATIONAL GUARD
1 EA. WTH/STRIP 137NA x W x H NATIONAL GUARD
1 EA. SWEEP 200NA x WIDTH NATIONAL GUARD
1 EA. KICK PLATE 12"HX2" LDW 32D HAGER

HARDWARE SET NO.5 EXIT DOORS
3 EA. HINGES BB1279 NRP 4 1/2 X 4 1/2 US26D HAGER
1 EA. THRESHOLD 896V X WIDTH NATIONAL GUARD
1 EA. WTH/STRIP 137NA X W X H NATIONAL GUARD
1 EA. PANIC V40A DETEX
1 EA. CLOSER P4041 SNB ALUM LCN

HARDWARE SET NO.6 TOILET ROOMS
3 EA. HINGES BB1279 4 1/2"X4 1/2" 26D HAGER
1 EA. CLOSERS 1461P #SNB ALUM LCN
1 EA. PULL PLATE H33E 4X16 US28 HAGER
1 EA. PUSH PLATE 30S 4X16 US28 HAGER
1 EA. KICK PLATE 10"HX2" LDW US28 HAGER
1 EA. DOOR STOP AS. REQ. FLOOR/WALL/HINGE HAGER

HARDWARE SET NO.7 KITCHEN DOORS
3 EA. HINGES BB1279 4 1/2"X4 1/2" 26D HAGER
1 EA. LOCK SET D80PD PHO 626 SCHLAGE
1 EA. DOOR STOP AS REQ. - FLOOR/WALL/HINGE HAGER
1 EA. KICK PLATE 10"H X2"LDW US28 HAGER

HARDWARE SET NO.8 UTILITY ROOM DOOR (WHERE APPLICABLE)
3 EA. HINGES BB1279 4 1/2"X4 1/2" 26D HAGER
1 EA. LOCK SET D80PD RHO 626 SCHLAGE

HARDWARE SET NO.9 CONTROL / OFFICE DOOR
3 EA. HINGES BB1279 4 1/2"X4 1/2" 26D HAGER
1 EA. LOCK SET D80PD RHO 626 SCHLAGE
1 EA. CLOSER 1461PD #1 SNB ALUM LCN
1 EA. DOOR STOP AS REQ. - FLOOR/WALL/HINGE HAGER
1 EA. KICK PLATE 10"H X2"LDW US28 HAGER

HARDWARE SET NO.10 MERCHANDISE / TECH ROOM DOOR
3 EA. HINGES BB1279 4 1/2"x4 1/2" 26D HAGER
1 EA. LOCK SET D80PD RHO 626 SCHLAGE
1 EA. CLOSER 1461PD #1 SNB ALUM LCN
1 EA. DOOR STOP AS. REQ. FLOOR/WALL/HINGE HAGER

HARDWARE SET NO.11 SINGLE TOILET DOOR (WHERE APPLICABLE)
3 EA. HINGES BB1279 4 1/2"X4 1/2" 26D HAGER
1 EA. LOCK SET D40S RHO 626 SCHLAGE
1 EA. CLOSER 1461P SNB #1 ALUM LCN
1 EA. DOOR STOP AS. REQ. FLOOR/WALL/HINGE HAGER

HARDWARE SET NO.12 STORE FRONT EXIT DOOR
3 EA. PIVOTS BY DOOR MANUFACTURER -
1 EA. THRESHOLD 896 X WIDTH NATIONAL GUARD
1 EA. WTH/STRIP 5050 X DOOR SIZE NATIONAL GUARD
1 EA. PANIC CECE V40 X EBKS X DETEX NARROW STYLE #101879-1
1 EA. CLOSER 1461 SNB ALUM LCN

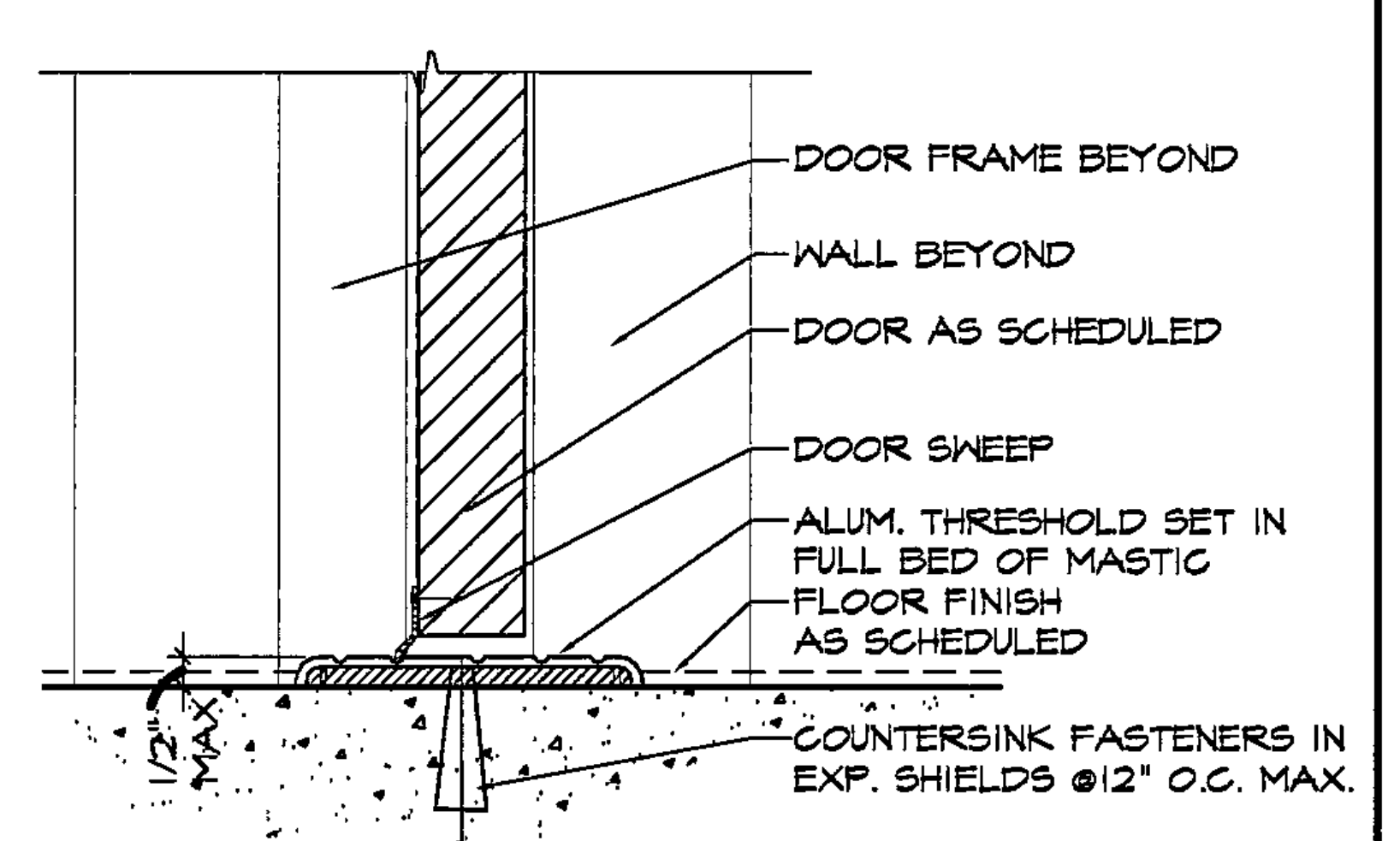
HARDWARE SET NO.13 UTILITY ROOM DOOR (WHERE APPLICABLE)
3 EA. ROTON 780-210-HD 83" ALUM HAGER
1 EA. LOCKSET D80PD RHO 626 SCHLAGE
1 EA. CLOSER 4111 H-CUSH SNB #1 ALUM LCN

HARDWARE SET NO.14 COSTUME ROOM DOOR. - PUSH BUTTON LOCK
3 EA. HINGES BB1279 4 1/2"x4 1/2" 26D HAGER
1 EA. LOCK SET (KEYPAD) L1021S 26D SIMPLEX
1 EA. CLOSER 1461P SNB #1 ALUM LCN
1 EA. DOOR STOP AS REQ. - FLOOR/WALL/HINGE HAGER
1 EA. KICK PLATE 10"H x2"LDW US28 HAGER

KEY ALL LOCKS ON DAY OF TURNOVER. THE DOORS SHOULD BE KEYED AS FOLLOWED:

ONE GRAND MASTER (ALL OF THE LOCKS CAN BE OPENED WITH THIS KEY). ONE KEY FOR ALL INTERIOR DOORS (COMPRESSOR ROOM IS CONSIDERED AN INTERIOR DOOR). ONE KEY FOR TECH ROOM (ALSO ON INTERIOR DOOR KEY). ONE KEY FOR COSTUME ROOM (ALSO ON INTERIOR DOOR KEY). ONE KEY FOR FRONT DOOR.

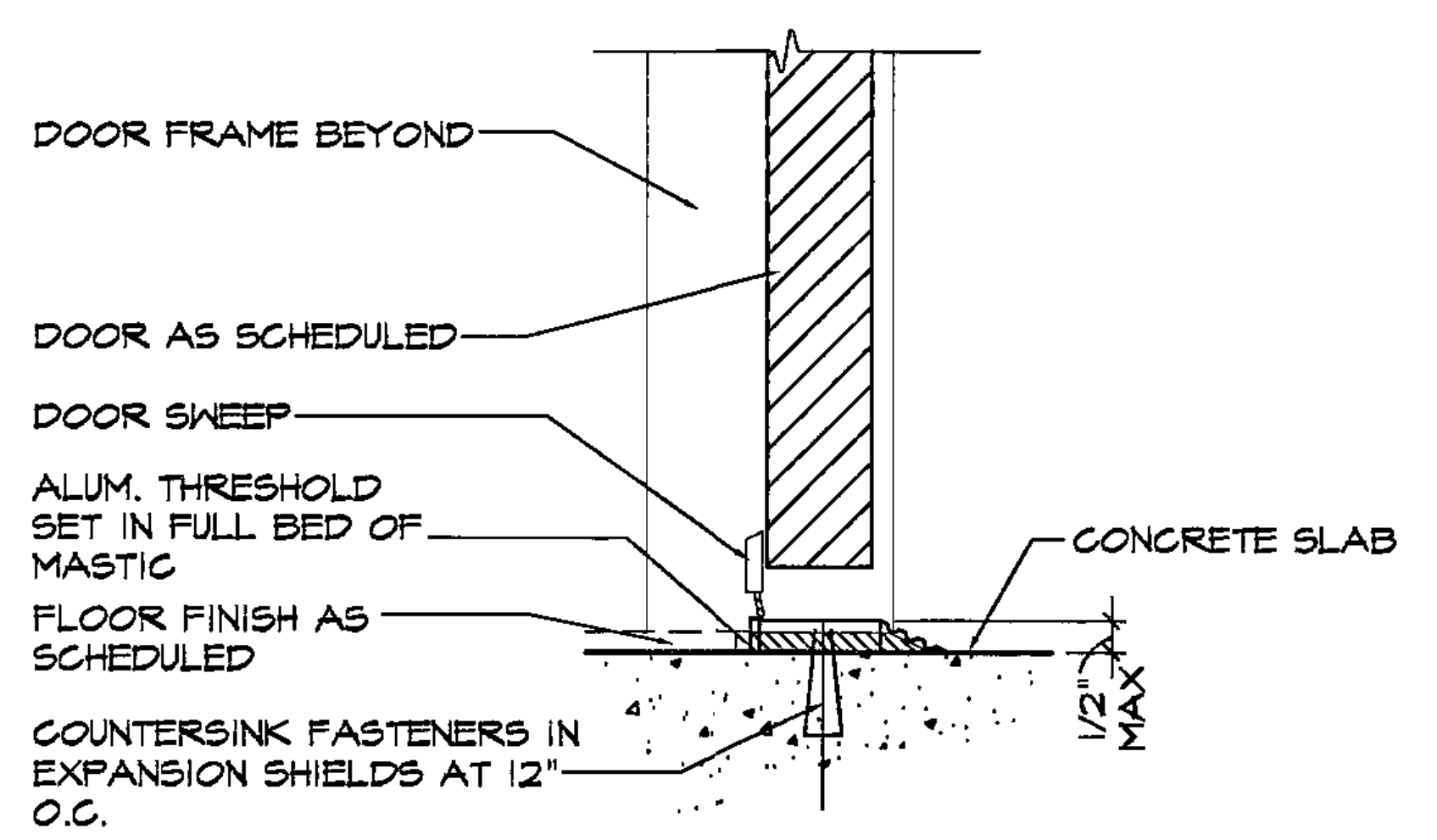
COPIES OF EACH KEY
GRAND MASTER (2)
INTERIOR DOOR KEY (6)
TECH ROOM KEY (6)
COSTUME ROOM KEY (3)
FRONT DOOR KEY (6)



DOOR FRAME BEYOND
WALL BEYOND
DOOR AS SCHEDULED
DOOR SWEEP
ALUM. THRESHOLD SET IN FULL BED OF MASTIC
FLOOR FINISH AS SCHEDULED
COUNTERSINK FASTENERS IN EXP. SHIELDS @12" O.C. MAX.
1/2" MAX

01 INTERIOR DOOR THRESHOLD

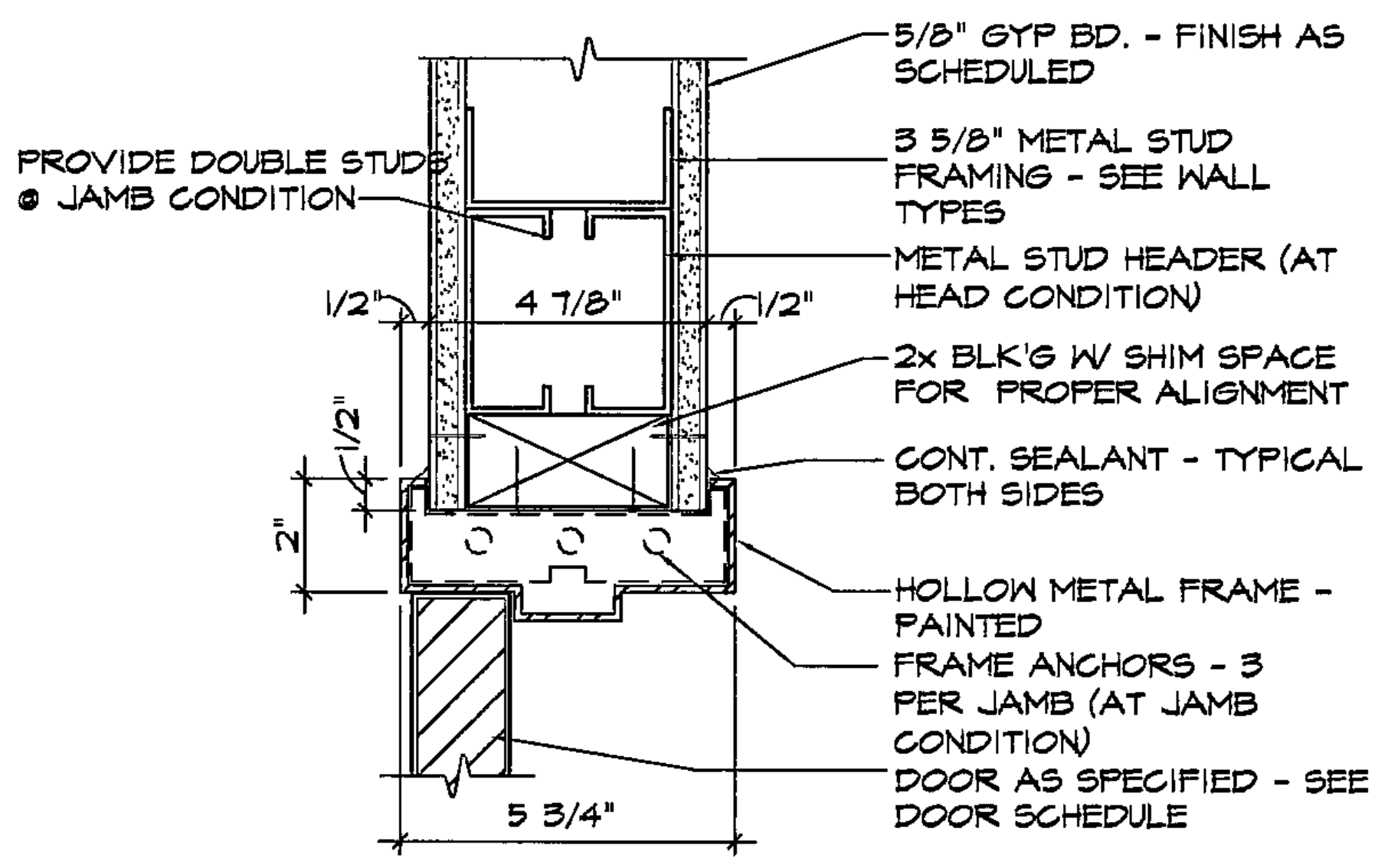
SCALE: 3" = 1'-0"



DOOR FRAME BEYOND
DOOR AS SCHEDULED
DOOR SWEEP
ALUM. THRESHOLD SET IN FULL BED OF MASTIC
FLOOR FINISH AS SCHEDULED
COUNTERSINK FASTENERS IN EXPANSION SHIELDS AT 12" O.C.
CONCRETE SLAB
1/2" MAX

02 EXTERIOR DOOR THRESHOLD

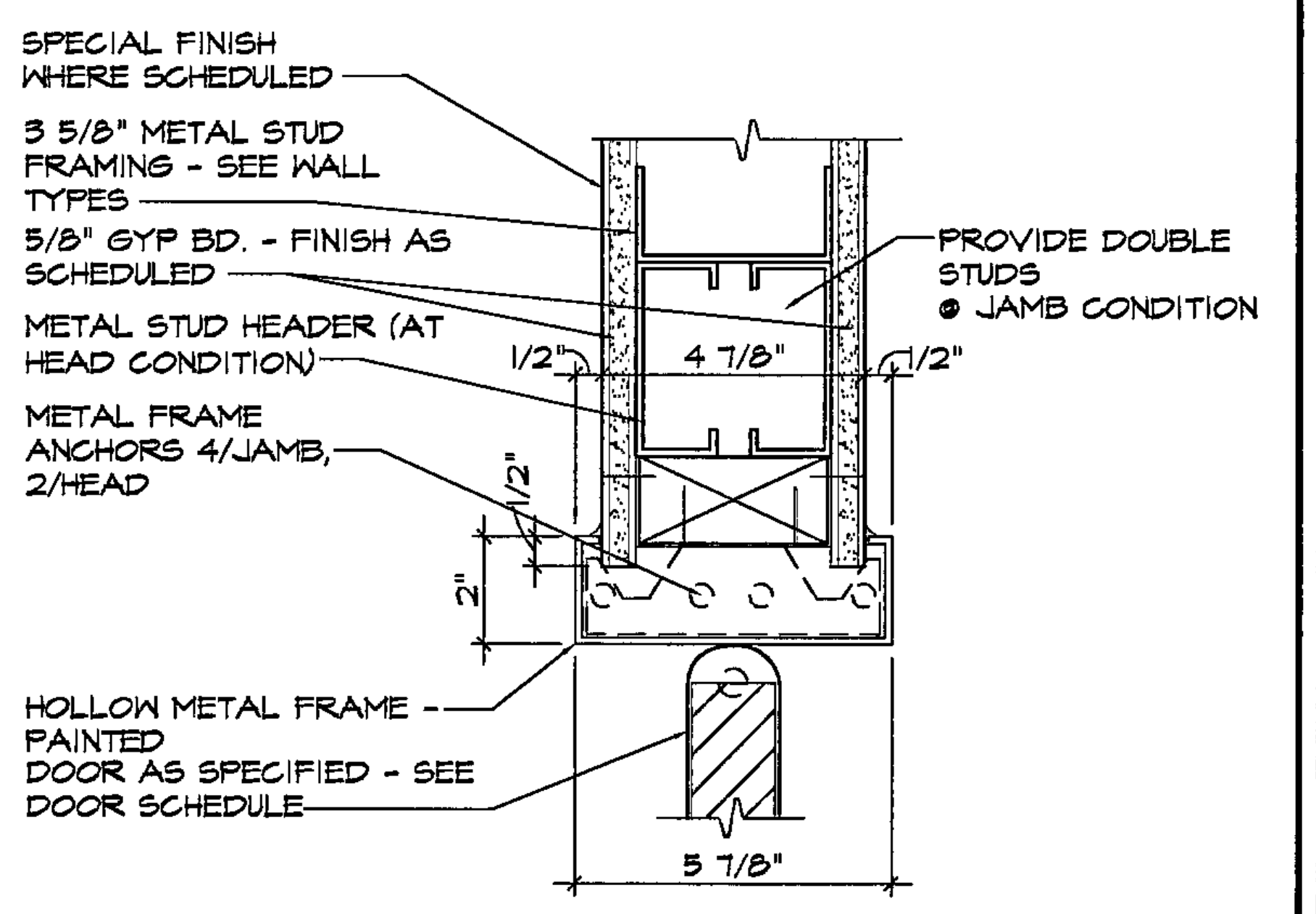
SCALE: 3" = 1'-0"



PROVIDE DOUBLE STUDS @ JAMB CONDITION
5/8" GYP BD. - FINISH AS SCHEDULED
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
METAL STUD HEADER (AT HEAD CONDITION)
2x BLK'G W/ SHIM SPACE FOR PROPER ALIGNMENT
CONT. SEALANT - TYPICAL BOTH SIDES
HOLLOW METAL FRAME - PAINTED
FRAME ANCHORS - 3 PER JAMB (AT JAMB CONDITION)
DOOR AS SPECIFIED - SEE DOOR SCHEDULE
1/2"
4 7/8"
1/2"
1/2"
2"
5 3/4"

03 INTERIOR H.M. DOOR HEAD/JAMB

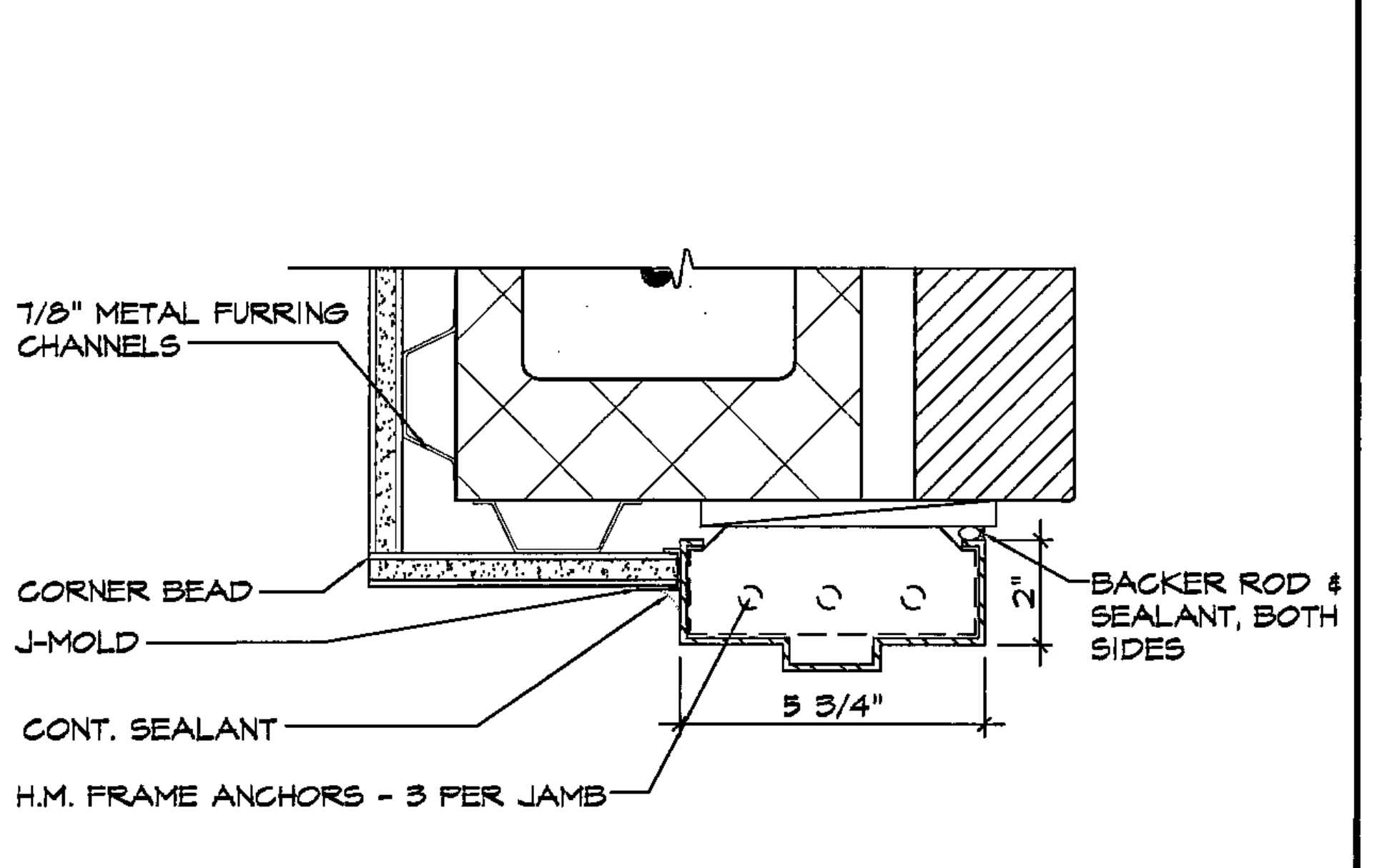
SCALE: 3" = 1'-0"



SPECIAL FINISH WHERE SCHEDULED
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
5/8" GYP BD. - FINISH AS SCHEDULED
METAL STUD HEADER (AT HEAD CONDITION)
METAL FRAME ANCHORS 4/JAMB, 2/HEAD
HOLLOW METAL FRAME - PAINTED
DOOR AS SPECIFIED - SEE DOOR SCHEDULE
PROVIDE DOUBLE STUDS @ JAMB CONDITION
1/2"
4 7/8"
1/2"
1/2"
2"
5 7/8"

04 HEAD/JAMB @ DBL. ACT. DOOR

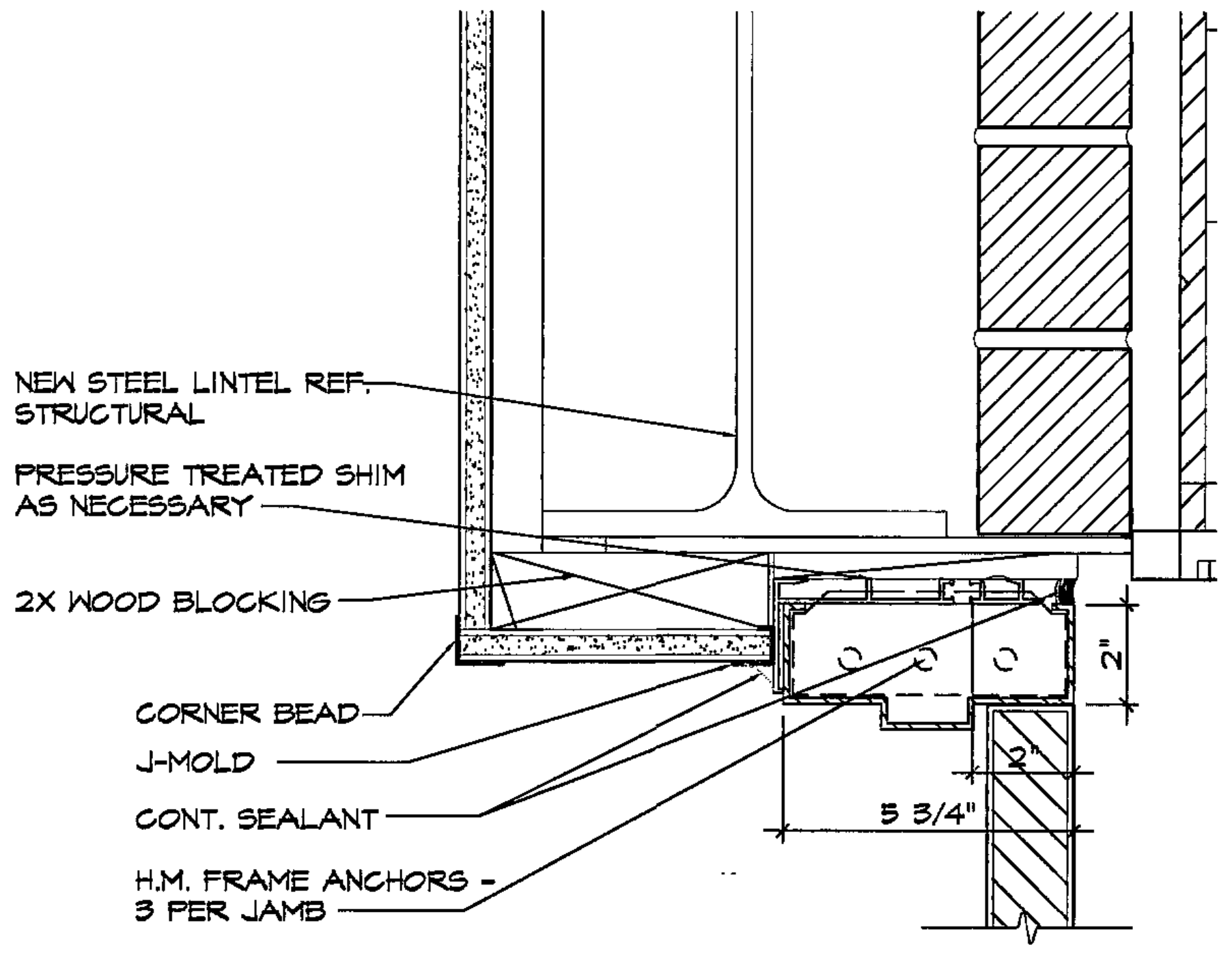
SCALE: 3" = 1'-0"



7/8" METAL FURRING CHANNELS
CORNER BEAD
J-MOLD
CONT. SEALANT
H.M. FRAME ANCHORS - 3 PER JAMB
BACKER ROD & SEALANT, BOTH SIDES
2"
5 3/4"

05 EXTERIOR H.M. DOOR JAMB

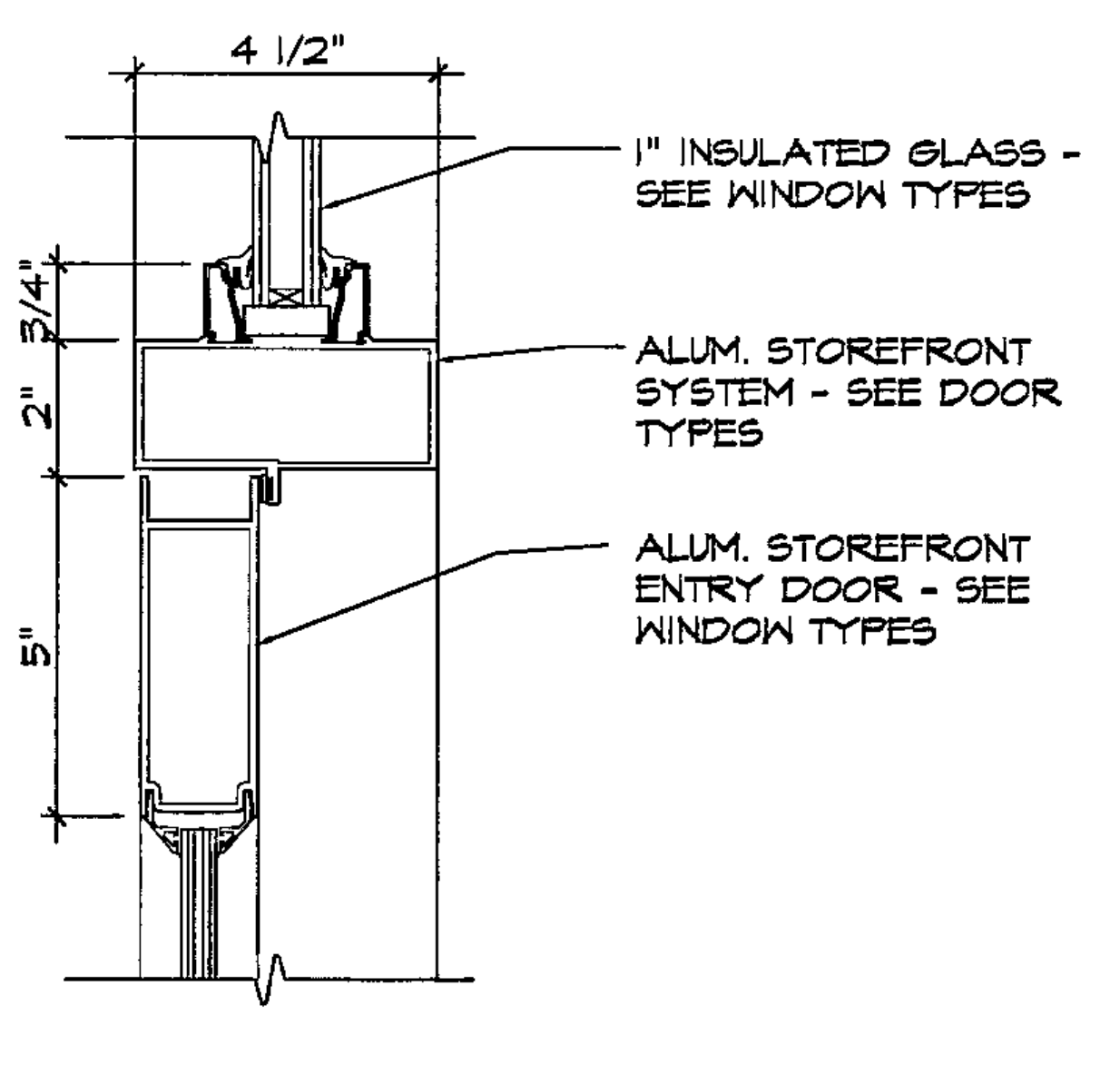
SCALE: 3" = 1'-0"



NEW STEEL LINTEL REF. STRUCTURAL
PRESSURE TREATED SHIM AS NECESSARY
2X WOOD BLOCKING
CORNER BEAD
J-MOLD
CONT. SEALANT
H.M. FRAME ANCHORS - 3 PER JAMB
2"
2"
5 3/4"

06 EXTERIOR H.M. DOOR HEAD

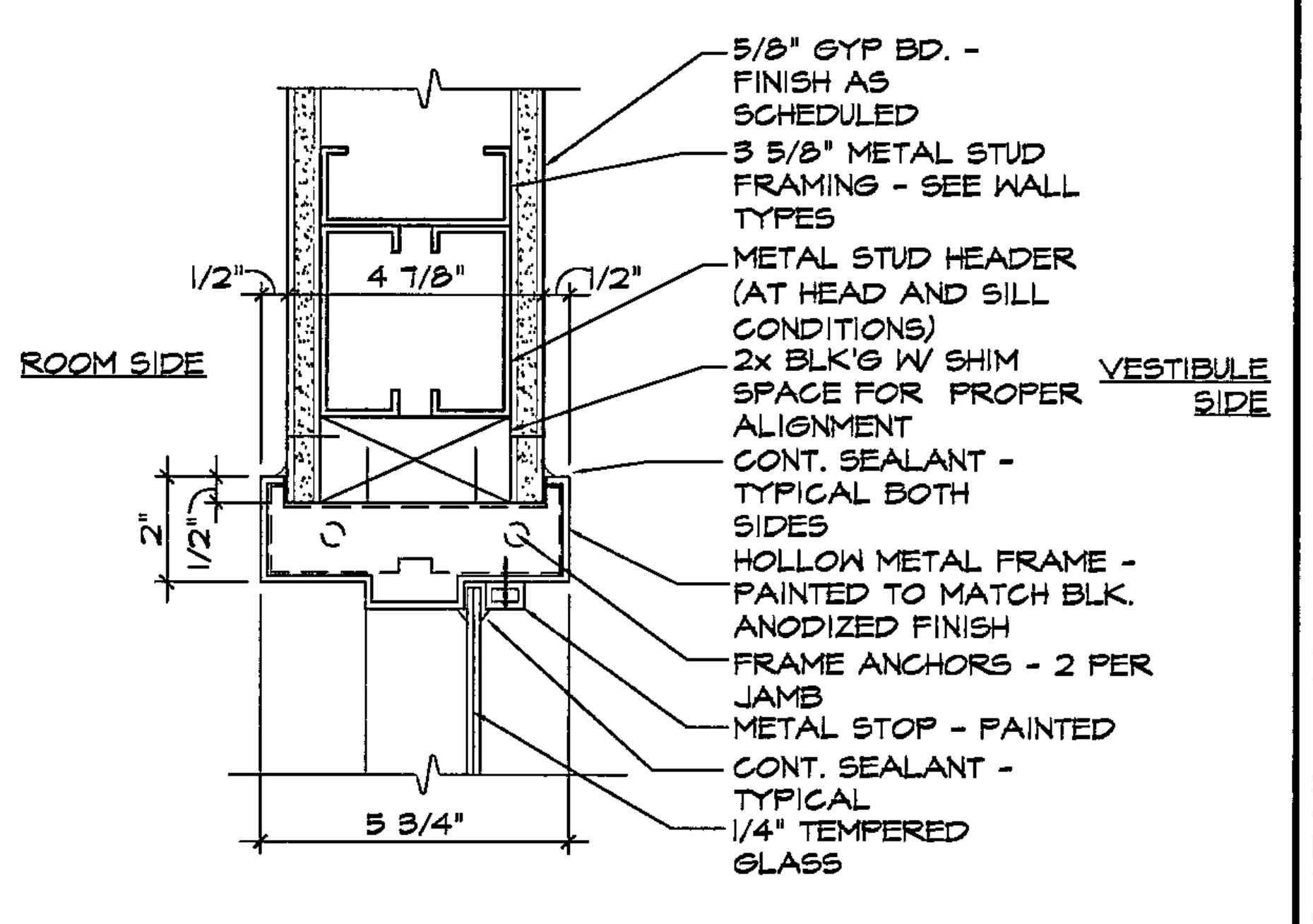
SCALE: 3" = 1'-0"



4 1/2"
1" INSULATED GLASS - SEE WINDOW TYPES
ALUM. STOREFRONT SYSTEM - SEE DOOR TYPES
ALUM. STOREFRONT ENTRY DOOR - SEE WINDOW TYPES
3/4"
2"
5"

07 STOREFRONT DOOR HEAD

SCALE: 3" = 1'-0"



5/8" GYP BD. - FINISH AS SCHEDULED
3 5/8" METAL STUD FRAMING - SEE WALL TYPES
METAL STUD HEADER (AT HEAD AND SILL CONDITIONS)
2x BLK'G W/ SHIM SPACE FOR PROPER ALIGNMENT
CONT. SEALANT - TYPICAL BOTH SIDES
HOLLOW METAL FRAME - PAINTED TO MATCH BLK. ANODIZED FINISH
FRAME ANCHORS - 2 PER JAMB
METAL STOP - PAINTED
CONT. SEALANT - TYPICAL
1/4" TEMPERED GLASS
ROOM SIDE
VESTIBULE SIDE
1/2"
4 7/8"
1/2"
1/2"
2"
5 3/4"

08 INTERIOR WINDOW HEAD/JAMB/SILL

SCALE: 3" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

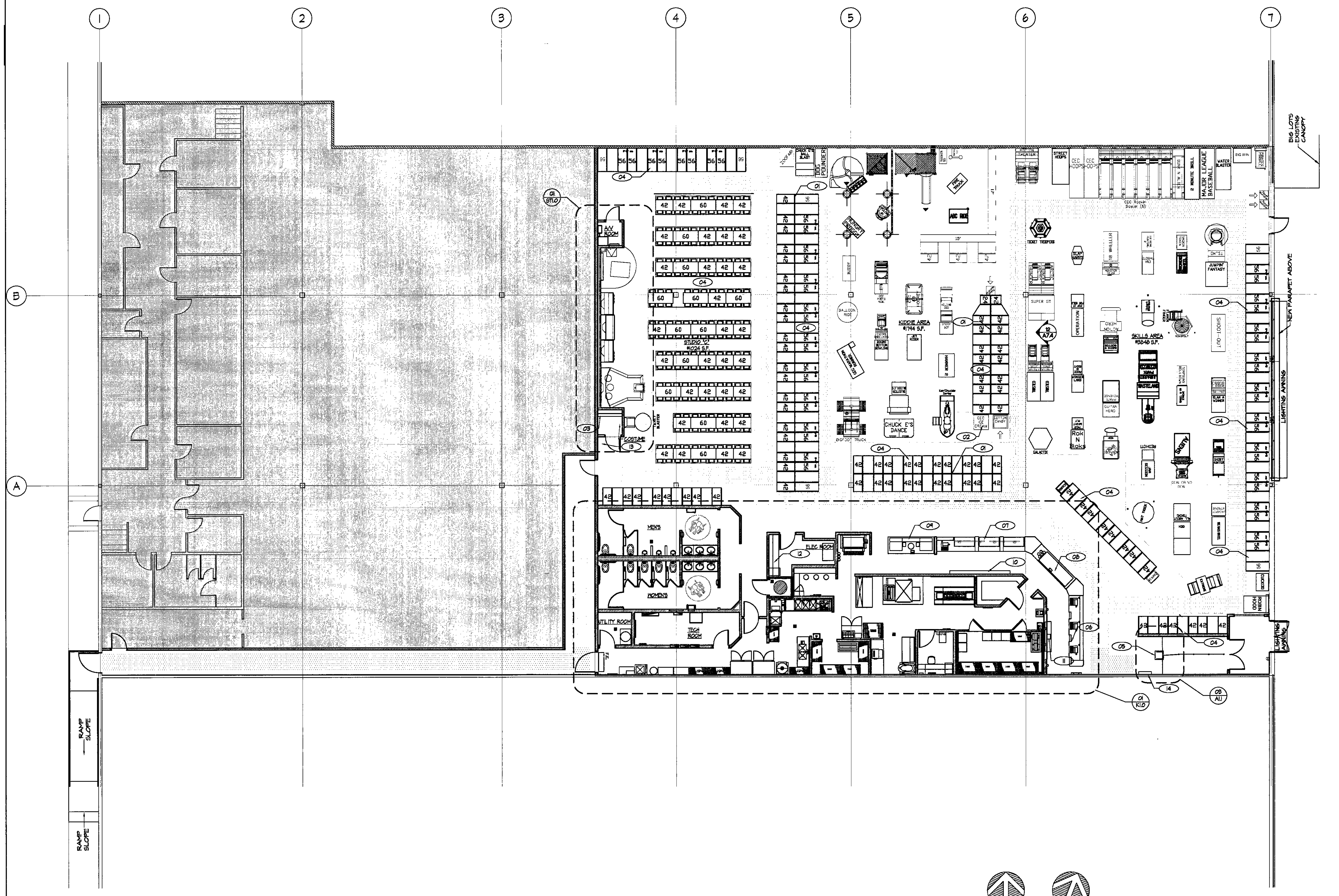
CHUCKECHEESE'S
3001 COLLEGE AVE
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

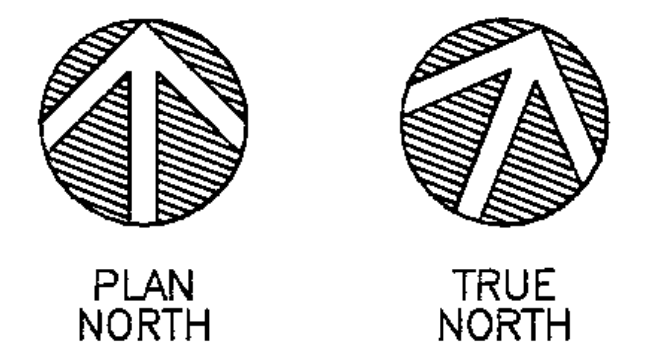
SCHEDULES + DETAILS

A8.0



01 FURNISHINGS PLAN

SCALE: 3/32" = 1'-0"



FURNISHINGS PLAN KEYNOTES

EXAMPLE: A9.24= (24)

A9.01 BOOTH PANEL DIVIDERS: PLASTIC LAMINATE DIVIDING BOOTH PANELS TO BE FABRICATED BY THE BOOTH MANUFACTURER AND INSTALLED BY THE G.C.

A9.02 VENDING ICE-CREAM MACHINE: ICE-CREAM MACHINES TO HAVE DEDICATED POWER CIRCUIT, VERIFY POWER SUPPLY REQUIREMENTS PRIOR TO INSTALLATION.

A9.03 COSTUME ROD: COORDINATE LOCATION OF COSTUME COAT HANGING ROD AND SHELF IN KITCHEN AREA WITH C.E.C.. PROVIDE BLOCKING IN WALL AS REQUIRED.

A9.04 FURNITURE: ALL BOOTH FURNITURE (INCLUDING TABLES AND CHAIRS), ARE TO BE INSTALLED AS DIRECTED BY CEC AND AS SPECIFIED BY CEC ON FINAL FURNITURE MARK-UP PLAN AS INDICATED ON CONSTRUCTION ISSUE DRAWINGS.

A9.05 KID CHECK STANCHION: KID CHECK STANCHION TO BE FURNISHED BY CEC AND INSTALLED BY THE G.C. SEE DETAILS 19/A7.3 AND 03/A7.4.

A9.06 ORDER DESK MILLWORK: ORDER DESK MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAIL 02/A7.3.

A9.07 MERCHANDISE MILLWORK: MERCHANDISE MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAIL 04/A7.3.

A9.08 SALAD BAR MILLWORK: SALAD BAR MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAILS 01/A7.3 AND 06/A7.3.

A9.09 BEVERAGE BAR MILLWORK: BEVERAGE BAR MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAILS 03/A7.3 AND 09/A7.3.

A9.10 SLAT WALL MILLWORK: SLAT WALL MILLWORK TO BE FABRICATED BY AND INSTALLED BY THE G.C. - SEE DETAILS 12/A7.3 AND 16/A7.3.

A9.11 BEER TAP AND TRAY: BEER TAP AND TRAY EQUIPMENT TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C. - SEE DETAIL 14/A7.3.

A9.12 TECH COUNTER: PLASTIC LAMINATE TECH COUNTER TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C. - SEE DETAIL 07/A7.3.

A9.13 MIRROR: INSTALL OWNER PROVIDED 18" X 48" GLASS MIRROR ON INSIDE OF COSTUME ROOM DOOR.

A9.14 MARKETING BOARD: INSTALL OWNER PROVIDED MARKETING BOARD. PROVIDE POWER PER ELECTRICAL DWGS.

GENERAL NOTES

1. DECOR: G.C. TO INSTALL NEW ARTWORK, DECOR AND COAT HOOKS AS INDICATED. G.C. TO INSTALL MATCHING CORNER GUARDS AS NEEDED. FINAL LOCATION TO BE DETERMINED BY C.E.C. ENTERTAINMENT INC. PRIOR TO CONSTRUCTION.
2. SAFETY ITEMS: INSTALL FIRE EXTINGUISHERS, ALARMS, PA CONTROLS, MOTION DETECTORS, EMERGENCY LIGHTING, THERMOSTATS, ETC., AS REQUIRED BY LOCAL FIRE AND /OR BUILDING AUTHORITIES. INSTALLATION OF NEW ART WORK AND DECOR SHALL NOT BE IN CONFLICT. UNSPECIFIED LOCATIONS FOR NON LIFE SAFETY ITEMS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. UNSPECIFIED LOCATIONS FOR LIFE SAFETY ITEMS SHALL BE VERIFIED WITH LOCAL FIRE AND /OR BUILDING AUTHORITIES PRIOR TO INSTALLATION.
3. REFERENCE DETAIL 12/A7.4 FOR TYPICAL BOOTH DIVIDER PANELS.
4. TABLE TOP SPLASH IS REQUIRED AT ALL LOCATIONS W/O CENTER BOOTH DIVIDER PANELS.
5. BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO ORDERING.

CALCULATIONS

SEATING - PROPOSED SEATING COUNT

LOCATION	COUNT
SHOWROOM	270
KIDDIE	120
SKILLS	108
TOTAL SEATING	508

FURNITURE LEGEND

NOTE:
ON CENTER DIMENSIONS ARE FROM BOOTH BACK TO BOOTH BACK.

▨ SHADING INDICATES PATHWAY.

BOOTH SEATING & TABLE.

FREESTANDING TABLE & CHAIR

EQUIPMENT

- WALL MOUNTED STROBE - MOUNT AS REQUIRED BY CODE AND LOCAL FIRE DEPARTMENT
- WALL MOUNTED THERMOSTAT @ 52" A.F.F.
- FEC RECESSED WALL MOUNT FIRE EXTINGUISHER.
- WALL MOUNT FIRE EXTINGUISHER.
- EMERGENCY PULL SWITCH
- FIRE ALARM CONTROL PANEL

TABLES & CHAIRS

42"	60"
4 SEATER	6 SEATER

SEATING BOOTHS

24"	36"	42"&48"	56"&60"	42"x24"	60"x42"	48"x24"	56"x42"
2 SEATER	4 SEATER	4 SEATER	6 SEATER	3 SEATER	5 SEATER	3 SEATER	5 SEATER

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

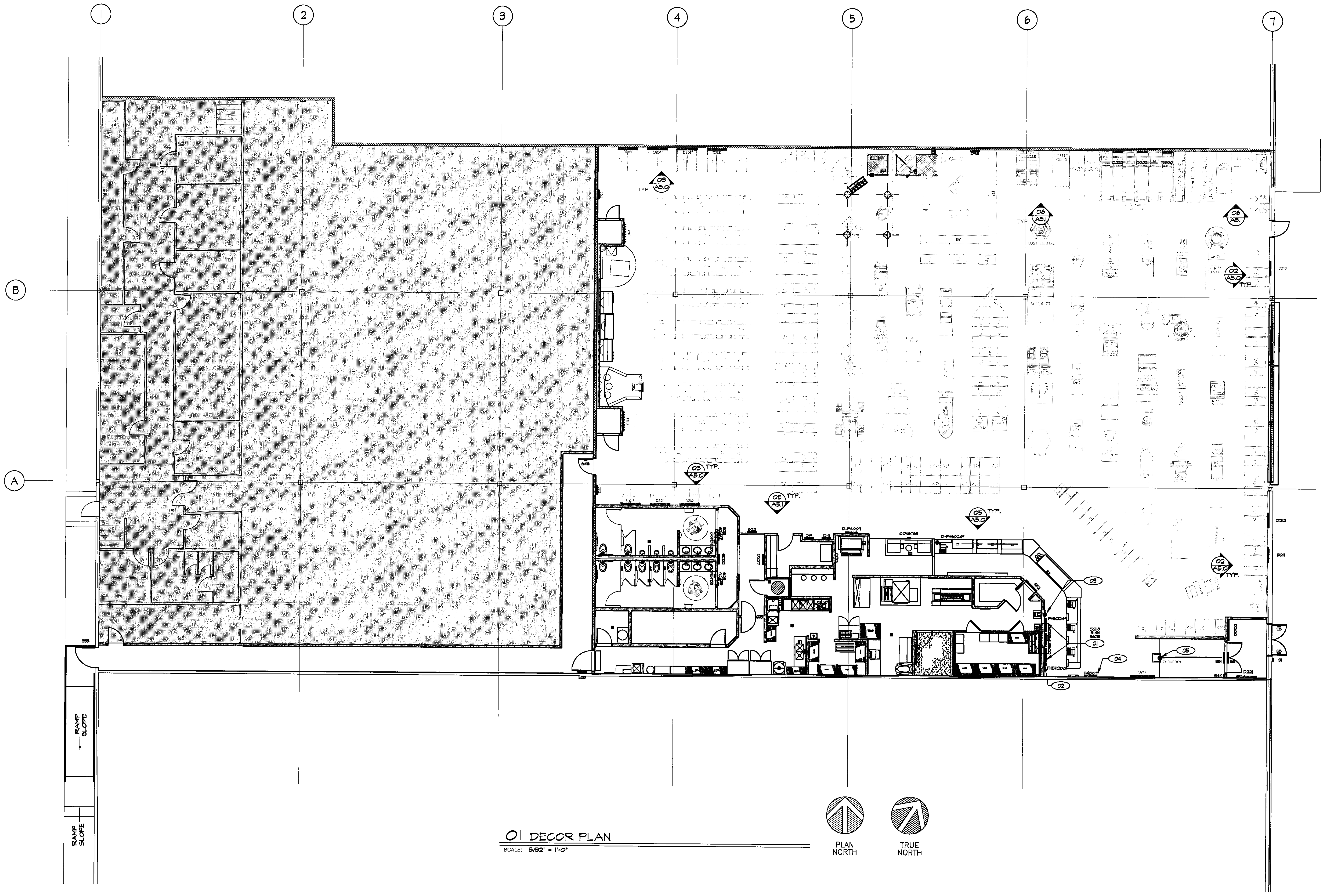
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

FURNISHINGS PLAN

A9.0



01 DECOR PLAN
SCALE: 3/32" = 1'-0"

DECOR PLAN KEYNOTES

EXAMPLE: A9.24 = (24)

A9.1.01 MENU BOARDS: INSTALL MENU BOARDS, RECESSED 3" INTO WALL, PROTRUDING 1" FROM FACE OF WALL. VERIFY DEPTH OF RECESS WITH SIGN COMPANY PRIOR TO INSTALLATION. PROVIDE POWER SUPPLY TO 3 INTERNALLY LIT MENU BOARDS AS SPECIFIED BY SIGN COMPANY. SEE DETAIL 11/A7.3

A9.1.02 BALLOON HANGER: PROVIDE AND INSTALL BALLOON HANGER. SEE FURNISHINGS PLAN FOR LOCATIONS.

A9.1.03 COTTON CANDY HANGER: PROVIDE AND INSTALL TWO BLACK AND BRASS COTTON CANDY HANGERS, SEE FURNISHINGS PLAN FOR LOCATION.

A9.1.04 MARKETING BOARD: INSTALL RECESSED MARKETING BOARD TO BE MOUNTED @ +52" ABOVE FINISH FLOOR. PROVIDE POWER AS REQUIRED.

GENERAL NOTES

1. DECOR: G.C. TO INSTALL NEW ARTWORK, DECOR AND COAT HOOKS AS INDICATED. G.C. TO INSTALL MATCHING CORNER GUARDS AS NEEDED. FINAL LOCATION TO BE DETERMINED BY C.E.C. ENTERTAINMENT INC. PRIOR TO CONSTRUCTION.
2. SAFETY ITEMS: INSTALL FIRE EXTINGUISHERS, ALARMS, PA CONTROLS, MOTION DETECTORS, EMERGENCY LIGHTING, THERMOSTATS, ETC., AS REQUIRED BY LOCAL FIRE AND /OR BUILDING AUTHORITIES. INSTALLATION OF NEW ART WORK AND DECOR SHALL NOT BE IN CONFLICT. UNSPECIFIED LOCATIONS FOR NON LIFE SAFETY ITEMS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. UNSPECIFIED LOCATIONS FOR LIFE SAFETY ITEMS SHALL BE VERIFIED WITH LOCAL FIRE AND /OR BUILDING AUTHORITIES PRIOR TO INSTALLATION.
3. REFERENCE DETAIL 12/A7.4 FOR TYPICAL BOOTH DIVIDER PANELS.
4. TABLE TOP SPLASH IS REQUIRED AT ALL LOCATIONS W/O CENTER BOOTH DIVIDER PANELS.
5. BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO ORDERING.

DECOR SCHEDULE

DECORATION SCHEDULE			LOCATION:			
V = Vertical, H = Horizontal			DATE:			
Item #	Qua	Description	Ven	Exist	New	Remarks
D19		Quad-Warhol	BWC			Yellow, Blue, Pink, Orange
D20		Tri-Warhol	BWC			
D93		Men In Black	BWC			
D94		Super Heroes	BWC			
D96		Ice Hockey	BWC			
D97		Soccer	BWC			
D98		Toddler Group Picture	BWC			Toddler Zone
D99		Toddler Fire Engine	BWC			Toddler Zone
D100		Munch Underwater Phone Décor	BWC			
D101		New Chuck Portrait	BWC			
D102		New Helen Portrait	BWC			
D103		New Munch Portrait	BWC			
D104		New Pasqually Portrait	BWC			
D105		New Jasper	BWC			
D106		Spiderman	BWC			
D200		Family Picture, 36 x 53 (Vertical - V)	BWC			Vestibule (opposite D221)
D201	1	Showroom Pic, Play2B, 48 x 72 (V)	BWC		x	Center in Wall Wash
D202	1	Showroom Pic, Smiles 2B, 48 x 72 (V)	BWC		x	" "
D203	1	Showroom Pic, Celebration2B, 48 x 72 (	BWC		x	" "
D204	1	Showroom Pic, Family, 48 x 72 (V)	BWC		x	" "
D205		Showroom Pic, Memories, 48 x 72 (V)	BWC			
D206	1	Showroom Pic, Winnings, 48 x 72 (V)	BWC		x	Center in Wall Wash
D207	1	Showroom Pic, Laughs, 48 x 72 (V)	BWC		x	" "
D208	1	Showroom Pic, Friends, 48 x 72 (v)	BWC		x	" "
D211	1	Ambass of Fun, 36 x 60 (V)	BWC		x	Center on wall
D212	1	King of Cool, 36 x 60 (V)	BWC		x	" "
D213		Titan of Tokens (HORIZONTAL - H)	BWC			
D214		Grand Marshal (H)	BWC			
D215	1	Garden Fresh #1, 60 x 48 (H)	BWC		x	Salad bar - Center in Wall Wash
D216	1	Garden Fresh #2, 60 x 48 (H)	BWC		x	" "
D217	1	Pizza Art, 60 x 48 (H)	BWC		x	" "
D218		Silicone Pizza Display	IWAS			See Menu Board Elevation
D219		PBS Art, 44 x 48 (V)	BWC			Toddler zone
D221	1	3D Gold Token, 48" Diameter	Prog		x	
D222	1	Gold Token, 24" (set of three)	Prog		x	Location to be determined at punch
D223	1	Oversized Tickets, 42 x 24	Prog		x	Location to be determined at punch
D225		Chuck E Portrait, 30 X 48 (V)	BWC			
D226		Helen Portrait, 30 X 48 (V)	BWC			
D227		Munch Portrait, 30 X 48 (V)	BWC			
D228		Jasper Portrait, 30 48 (V)	BWC			
D229		Pasqually Portrait, 30 x 48 (V)	BWC			
PHS0249	1	Cotton Candy Hanger	Prog		x	Location to be determined at punch
FHBHBD01	2	Balloon Hanger	Prog		x	Location to be determined at punch
P4007	1	Marketing Light Boxes (V)	SPT		x	

NOTE: All decorations, new and used, are installed by contractor. Please locate per elevations, secure using glue (silicone) and anchors, along with cleats provided. If in doubt please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans unless otherwise noted Décor is placed vertically with 1/3 remaining space below and 2/3 above.

SIGNAGE SCHEDULE

SIGNAGE SCHEDULE				LOCATION:		
V = Vertical, H = Horizontal				DATE:		
Item #	Qua	Description	Ven	Exists	New	Remarks
S1	1	Entrance Sign (Hours of Operation)	Ajax		x	Exterior of Building
S5	1	Enter and Exit Logo Decals	Ajax		x	1 Set of doors ONLY
S10B	1	Menu Header	Prog		x	See Menu Board Elevation
S10SM		Small Menu Header	Prog			
S14N		Pizza Paddles (New)	Prog		x	See Menu Board Elevation
S22	1	Restroom Directional	Prog		x	Center on Header
S23		Restroom Marquees (Men & Women)	Prog			5'-6" A.F.F
S24	1	Restroom Ovals (Chuck & Helen)	Prog		x	3'-0" A.F.F
S25		Kitchen Directional	Prog			Center on Header
S26	1	ADA Signs (Plastic)	SPT		x	Center of sign @ 5'-0"
S28		Logo (18" Round Cool Chuck)	Prog			Location TBD @ Punch
S31		Logo (26" Cool Chuck)	Prog			Location TBD @ Punch
S32		Logo (38" Cool Chuck)	Prog			Location TBD @ Punch
S47	1	Exit Only Decal	Ajax		x	5'-0" A.F.F.
S48	2	Exit Only Sign	Ajax		x	5'-0" A.F.F.
S49	1	Occupancy Sign (Total)	Ajax		x	10" Below Ceiling
S53		Delivery Sign	Ajax			
S54		CEC Does Not Discriminate (CA only)	Ajax			California only
S55		Alcohol Health Warning (CA only)	Ajax			California only
S56		Making Magic	Ajax			
S58		Notice: Token Sign (CA only)	Ajax			
Const82	1	License Board	Prog		x	5'-0" A.F.F.
Const83	3	Wet Floor Sign	SPT		x	Bottom of sign 12" A.F.F.
Constmb3248	1	Large Menu Boards	CLEA		x	See Menu Board Elevation
Constmb2639		Small Menu Boards	CLEA			See Menu Board Elevation
		Costume Hanger	MIDW			
		2' Coat Rack	MIDW			
		3' Coat Rack	MIDW			
		4' Coat Rack	MIDW			
		6' Coat Rack	MIDW			
		8' Coat Rack	MIDW			

NOTE: All signage, new or used, is installed by contractor. Please locate per elevations. Secure using glue (silicone) and anchors, along with cleats provided. If in doubt, please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995

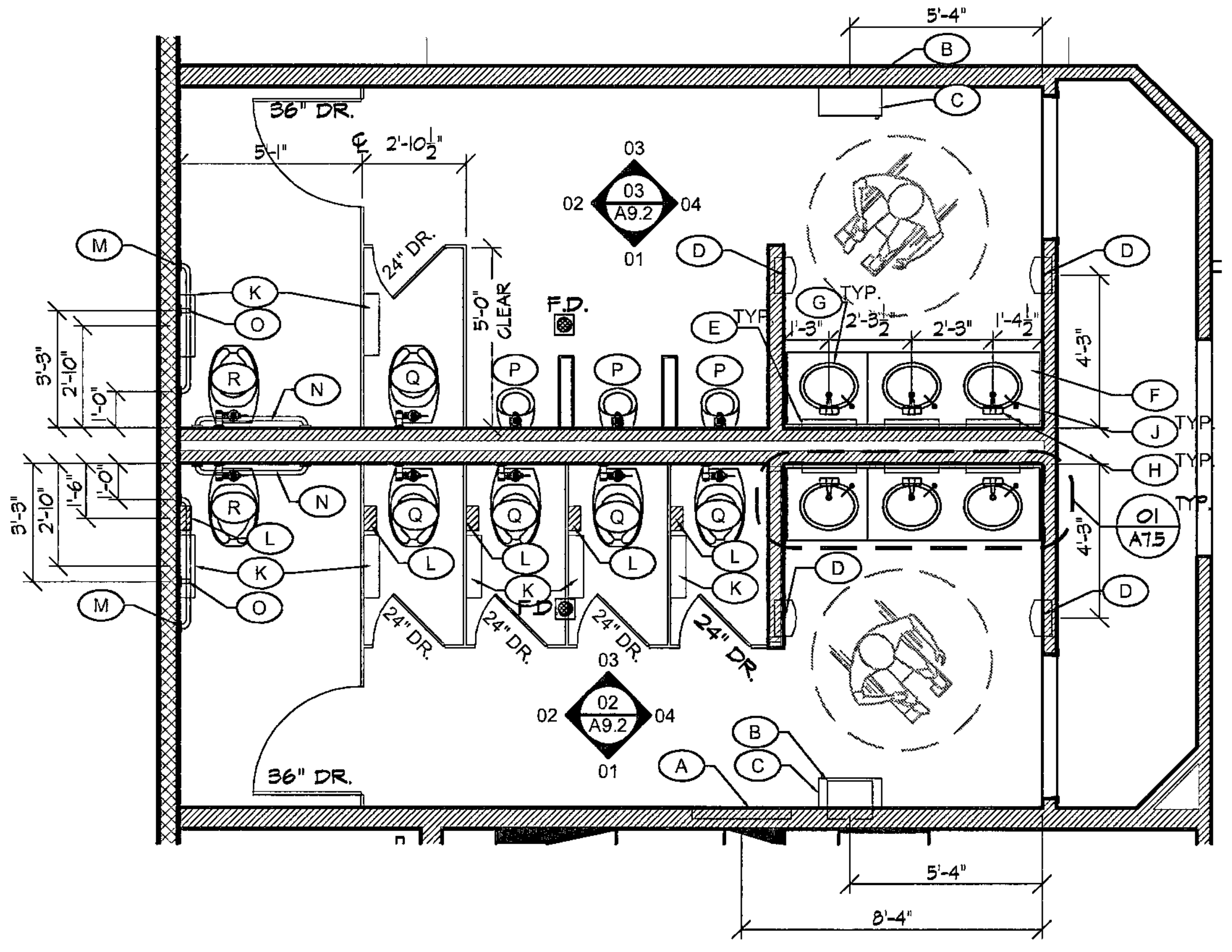
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

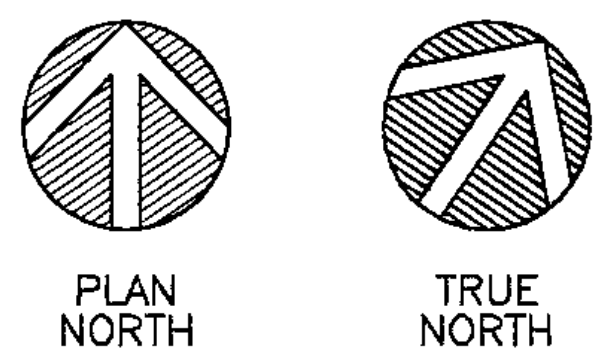
REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090B99
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
DECOR PLAN

A9.1

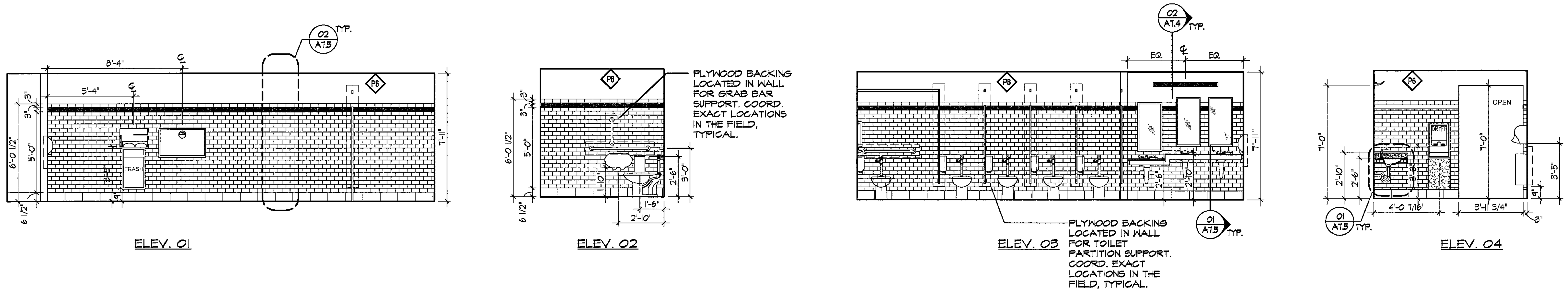


NOTE: SEE PLAN 02/A1.1 FOR DIMENSIONING AND LAYOUT



01 PARTITION & ACCESSORIES PLAN

SCALE: 1/4" = 1'-0"



PLYWOOD BACKING LOCATED IN WALL FOR GRAB BAR SUPPORT. COORD. EXACT LOCATIONS IN THE FIELD, TYPICAL.

PLYWOOD BACKING LOCATED IN WALL FOR TOILET PARTITION SUPPORT. COORD. EXACT LOCATIONS IN THE FIELD, TYPICAL.

ELEV. 01

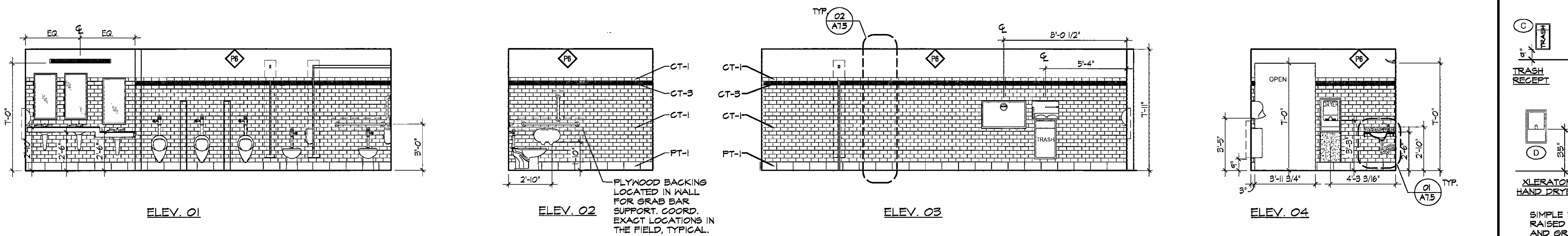
ELEV. 02

ELEV. 03

ELEV. 04

02 WOMENS RESTROOM

SCALE: 1/4" = 1'-0"



PLYWOOD BACKING LOCATED IN WALL FOR GRAB BAR SUPPORT. COORD. EXACT LOCATIONS IN THE FIELD, TYPICAL.

ELEV. 01

ELEV. 02

ELEV. 03

ELEV. 04

03 MENS RESTROOM

SCALE: 1/4" = 1'-0"

TOILET PARTITIONS

PROVIDE AND INSTALL FLOOR MOUNTED TOILET PARTITIONS AS MANUFACTURED BY BOBRICK.

1. BOBRICK DURALINE PHENOLIC COMPARTMENTS:
   A. COLORS: BOBRICK DURALINE OCHRE ROLETTA 4738
      1) DOORS: 1" THICK WITH SHARP EDGES REMOVED.
      2) PANELS: 1" THICK.
      3) PILASTERS: 1 1/4" THICK
2. TOP BRACKETS:
   A. BRIGHT ANODIZED ALUMINUM CHANNEL 1-7/16" X 1-1/4" ANTI-GRIP DESIGN AND THRU-BOLTED THROUGH FRONTS.
   B. FRONT SHALL BE SECURED TO THE FLOOR WITH 12 GAUGE TYPE 304 STAINLESS ANGLE AND TWO (2) 5/16" STUDS WITH LEVELING NUTS AND WASHERS.
3. ACCESSORIES: COMBINATION COAT HOOK AND BUMPER AT EACH STALL.
4. HARDWARE: COMPARTMENTS SHALL HAVE ALL HARDWARE AND FASTENERS NECESSARY FOR COMPLETE INSTALLATION.
   A. HINGES SHALL BE SURFACE MOUNTED AND MADE OF CHROME PLATED ZAMAC.
   B. TOP HINGES SHALL HAVE CONCEALED ABS ADJUSTABLE CAMS WITH CHROME PLATED ZAMAC REINFORCING PIN.
   C. STOP, KEEPER AND SLIDE LATCH SHALL BE CHROME PLATED ZAMAC.
   D. ALL BRACKETS SHALL BE CHROME PLATED ZAMAC.
   E. ALL HARDWARE SHALL BE THRU-BOLTED WITH ONE-WAY FASTENERS.

TYPICAL RESTROOM ACCESSORIES

MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQUIRED BLOCKING	REMARKS
A	KOALA BEAR KARE	KB110-SSRE HORIZ. CHANGING TABLE	G.C.	G.C.	X	RECESSED
B	JAMES RIVER	PAPER TOWEL DISPENSER	CEC		X	
C	BRADLEY #334	WASTE RECEPTACLE	G.C.	G.C.		SEMI-RECESSED
D	XLERATOR HAND DRYER	MODEL XL-SS (BRUSHED STAINLESS)	G.C.	G.C.		RECESSED KIT
E	BRADLEY #781-1836	(18"X36") SS FRAMED MIRROR				
F	WILSONART COUNTER	SAN GAB. RS- 9138RS SOLID SURFACE	G.C.	G.C.	X	
G	WILSONART - SINK	BV122 ANTIQUE WHITE 1572-SL	G.C.	G.C.	X	NTEGRAL MOUNT
H	BRADLEY	FAUCET MODEL: S53-315	G.C.	G.C.		
J	BRADLEY	SOAP DISPENSER MODEL: 6324-000000	G.C.	G.C.		
K	JAMES RIVER	TOILET PAPER DISPENSER	CEC			
L	BRADLEY #4781-15	NAPKIN DISPOSAL BOX	G.C.	G.C.		
M	BRADLEY 8120-00142	42" HANDICAP GRAB BARS	G.C.	G.C.	X	
N	BRADLEY 8120-00136	36" HANDICAP GRAB BARS	G.C.	G.C.	X	
O	BRADLEY 812-001-18	18" VERTICAL GRAB BARS	G.C.	G.C.	X	
P	TOTO USA	UT104 URINAL -WHITE COLOR			X	URINAL
Q	AMERICAN STANDARD	"MADERA AQUAMETER" 2234.015-WH.	G.C.	G.C.		TOILET
R	AMERICAN STANDARD	"MADERRA" 3043.102.020-WHITE	G.C.	G.C.		ADA TOILET
S	AMERICAN STANDARD	"MURRO" SINK NO.0954.000.020- FAUCET NO.1480.115 W/ MCGUIRE TRAP	G.C.	G.C.	X	SUPPLY KNEE SHROUD

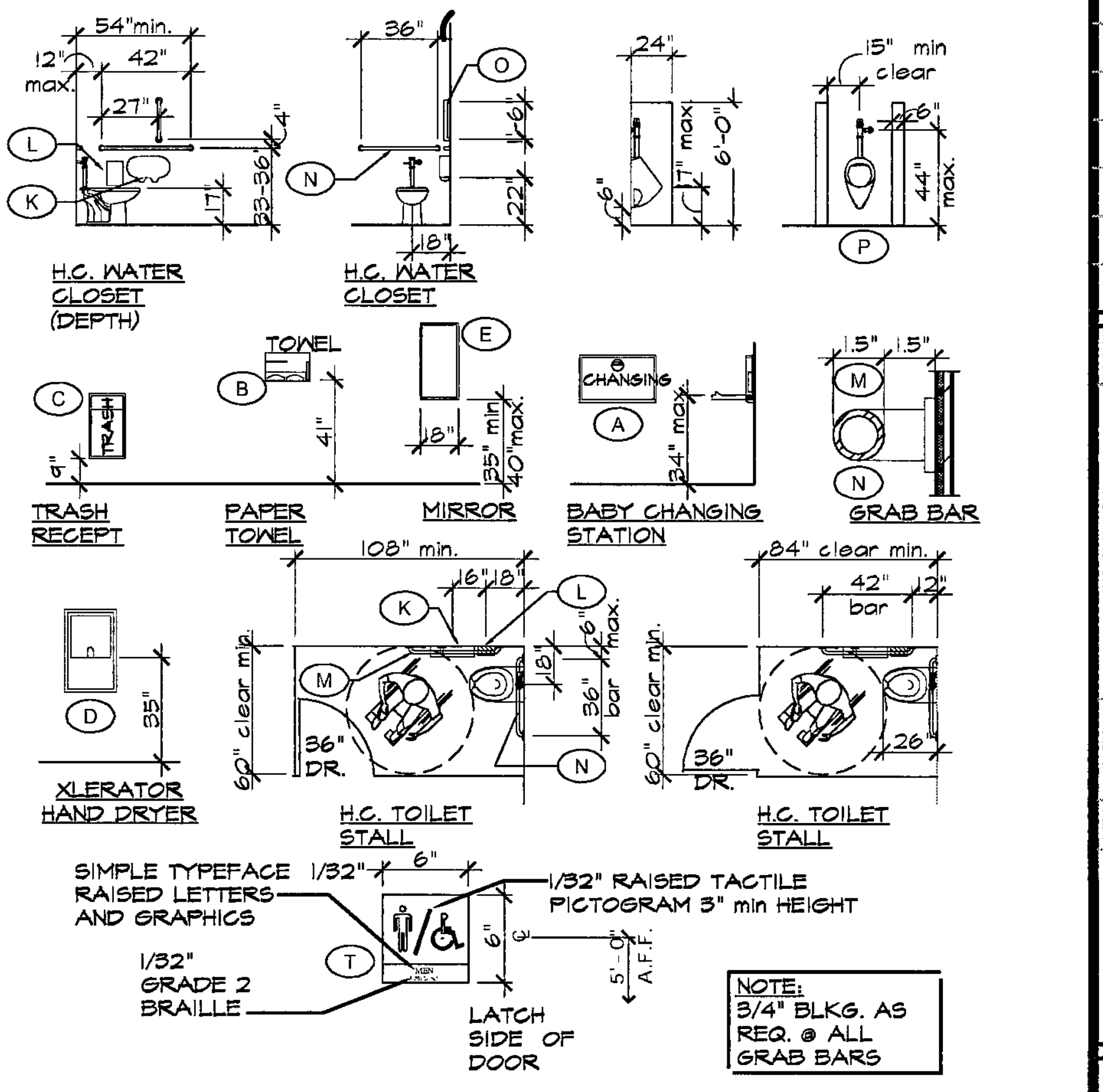
TOILET ROOM ACCESSIBILITY REQUIREMENTS

NOTE:

1. TOILET ROOMS SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ANSI 117.1) & TEXAS ACCESSIBLITY STANDARDS (TAS) WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
2. CONTRACTOR SHALL INSTALL ONE NAPKIN DISPOSAL BOX IN EACH STALL OF THE WOMEN'S RESTROOM
3. DIMENSIONS ARE FROM/TO O.F.O. FINISH U.I.O.
4. KNEE CLEARANCE AT LAVATORY: APRON 29" MIN. HEIGHT, 8" MIN. DEPTH.
5. LAVATORY HOT WATER AND DRAINPIPES TO BE INSULATED WHEREVER EXPOSED WITH FORM FITTING WRAPS.
6. PROVIDE ALL BLOCKING AS REQUIRED.
7. SILICON SEAL ALL FIXTURES TO WALL AND/OR FLOOR AS REQUIRED.
8. INSTALL 5'-0" TALL TOILET PARTITIONS AT 1'-0" A.F.F. SEE ENLARGED DETAIL FOR CENTERS.
9. INSTALL BOX WALL SCONCE LIGHT 7'-0" A.F.F. SEE SHEET A3.0 FOR LOCATION.
10. WATER CLOSET SEAT HEIGHT: 17" TO 19" A.F.F.
    B. GRAB BARS AT SIDE OF WATER CLOSET: 42" LONG MOUNTED 33" TO 36" A.F.F.
    C. TOILET PAPER DISPENSER: 36" MAX. FROM REAR WALL, 19" MIN. A.F.F.
    E. GRAB BAR DIAMETER: 1 ? " TO 1 ? " O.D.
    K. GRAB BAR BEHIND WATER CLOSET: 36" LONG, MOUNTED 33" TO 36" A.F.F.

    INTERNATIONAL SYMBOL OF ACCESSIBILITY :

    TO BE INSTALLED ON EXTERIOR OF THE TOILET ROOM DOOR. (RE: ELEVATION DETAIL BELOW) IDENTIFICATION SIGNS ARE RAISED SAN SERIF OR SIMPLE SERIF AND ALSO HAVE GRADE 2 BRAILLE. PICTORIAL SYMBOLS AND INCLUDE VERBAL DESCRIPTION. ROOM IDENTIFICATION SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE ROOM DOOR AT A HEIGHT OF 60" A.F.F. PROVIDE CLEAR FLOOR SPACE AT SIGN.



NOTE:
3/4" BLKG. AS REQ. @ ALL GRAB BARS

J:_DFW_Active_DFW_Misc\Chuck E Cheese\090899_Drawings\090899_A9.2.dwg May 27, 2010 - 12:59pm jlusty

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2695
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

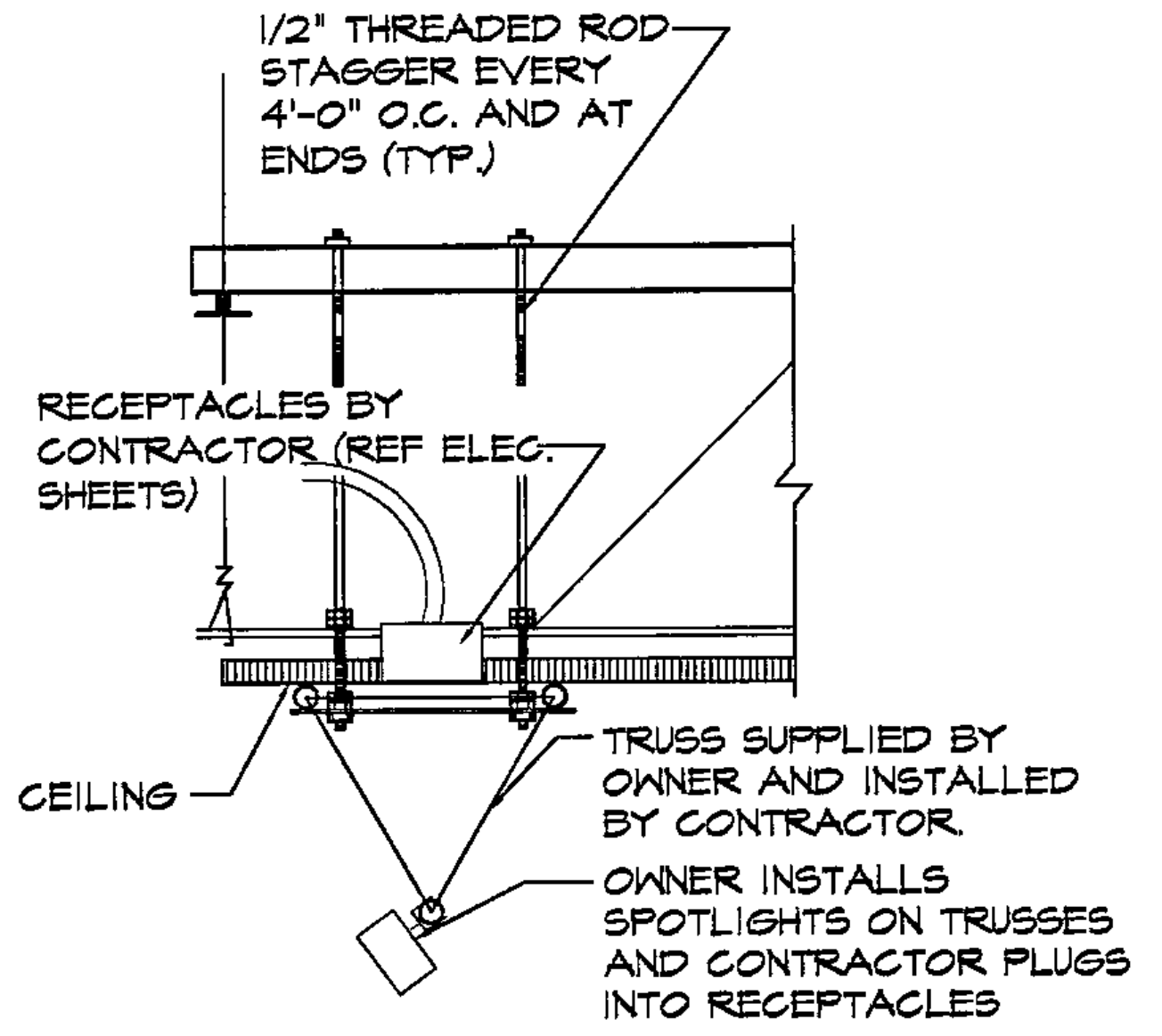
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

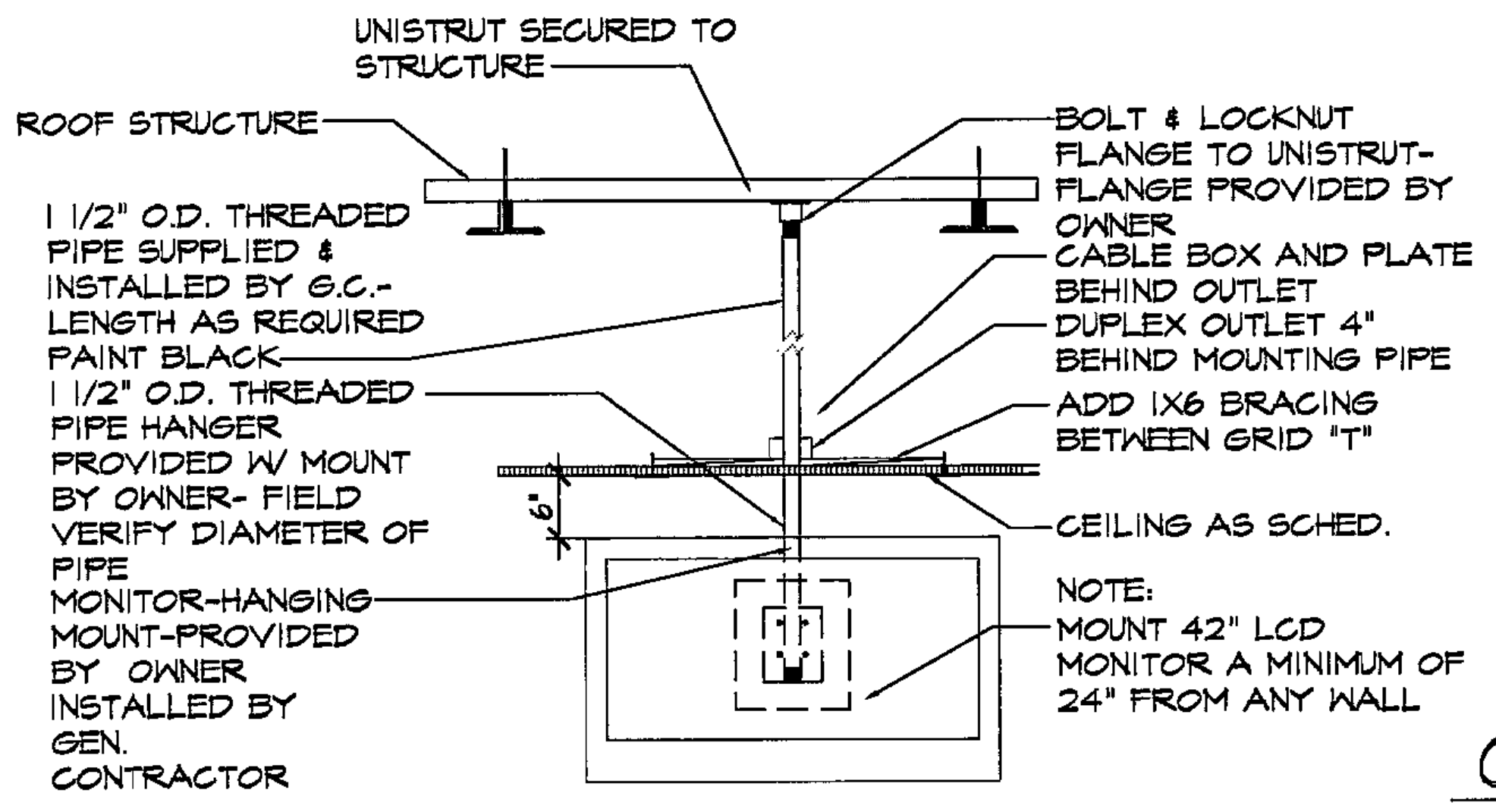
TOILET ROOM FINISH PLAN

A9.2


1/2" THREADED ROD STAGGER EVERY 4'-0" O.C. AND AT ENDS (TYP.)
RECEPTACLES BY CONTRACTOR (REF ELEC. SHEETS)
CEILING
TRUSS SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
OWNER INSTALLS SPOTLIGHTS ON TRUSSES AND CONTRACTOR PLUGS INTO RECEPTACLES

06 SHOWROOM LIGHT TRUSS

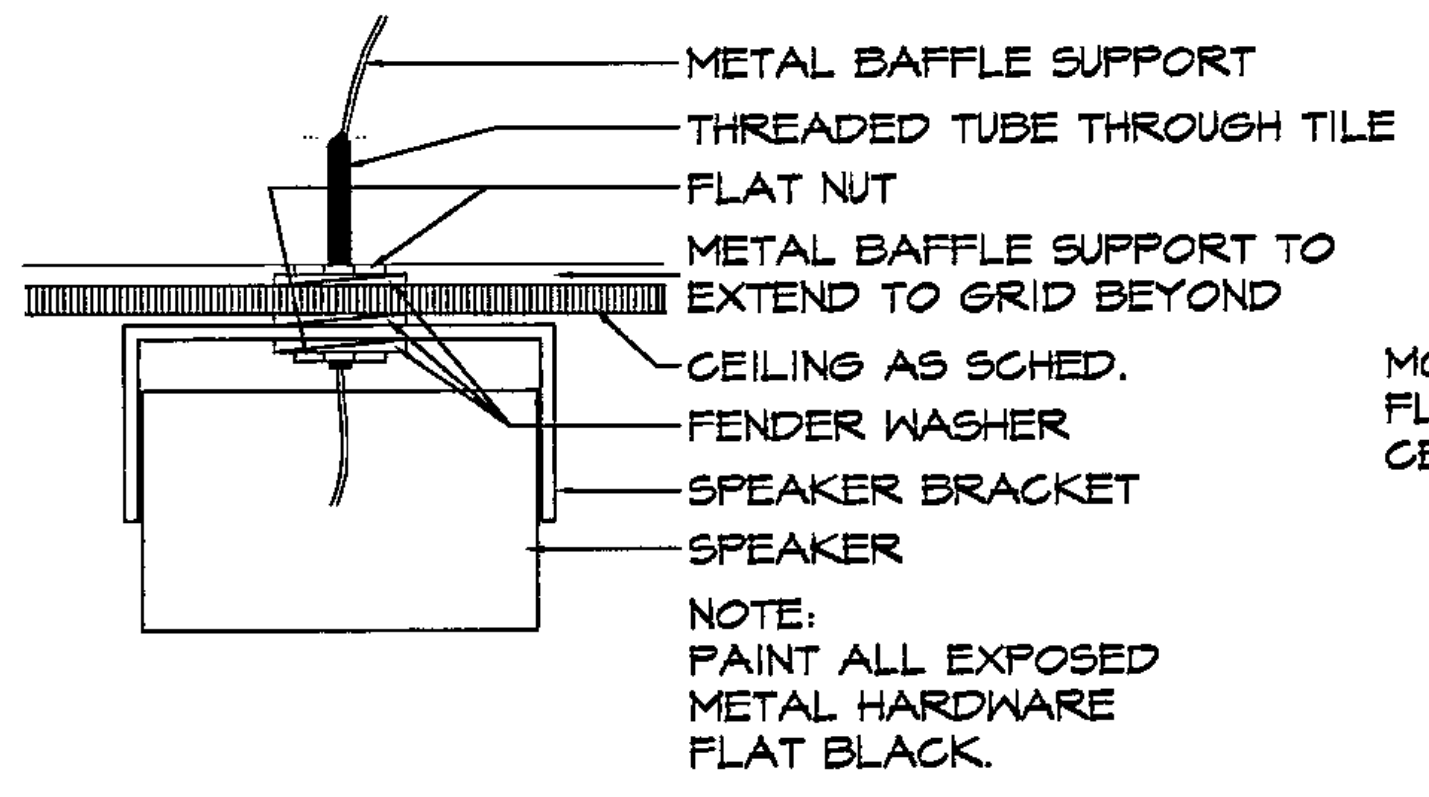
SCALE: N.T.S.


UNISTRUT SECURED TO STRUCTURE
ROOF STRUCTURE
1 1/2" O.D. THREADED PIPE SUPPLIED & INSTALLED BY G.C.- LENGTH AS REQUIRED PAINT BLACK
1 1/2" O.D. THREADED PIPE HANGER PROVIDED W/ MOUNT BY OWNER- FIELD VERIFY DIAMETER OF PIPE
MONITOR-HANGING MOUNT-PROVIDED BY OWNER INSTALLED BY GEN. CONTRACTOR
BOLT & LOCKNUT FLANGE TO UNISTRUT- FLANGE PROVIDED BY OWNER
CABLE BOX AND PLATE BEHIND OUTLET
DUPLEX OUTLET 4" BEHIND MOUNTING PIPE
ADD 1X6 BRACING BETWEEN GRID "T"
CEILING AS SCHED.
6"

NOTE:
MOUNT 42" LCD MONITOR A MINIMUM OF 24" FROM ANY WALL

07 LCD MONITOR DETAIL

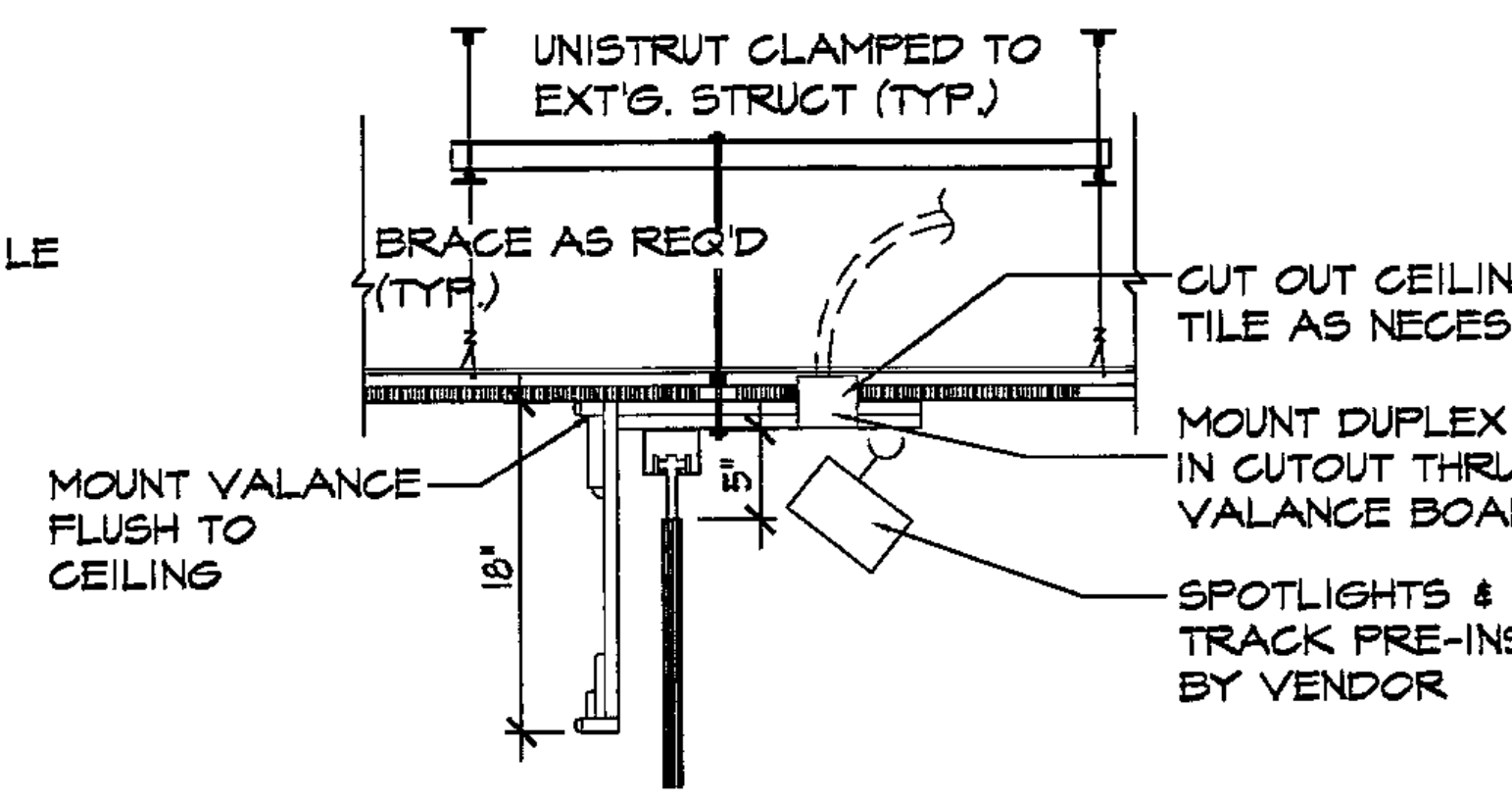
SCALE: N.T.S.



NOTE:
PAINT ALL EXPOSED METAL HARDWARE FLAT BLACK.

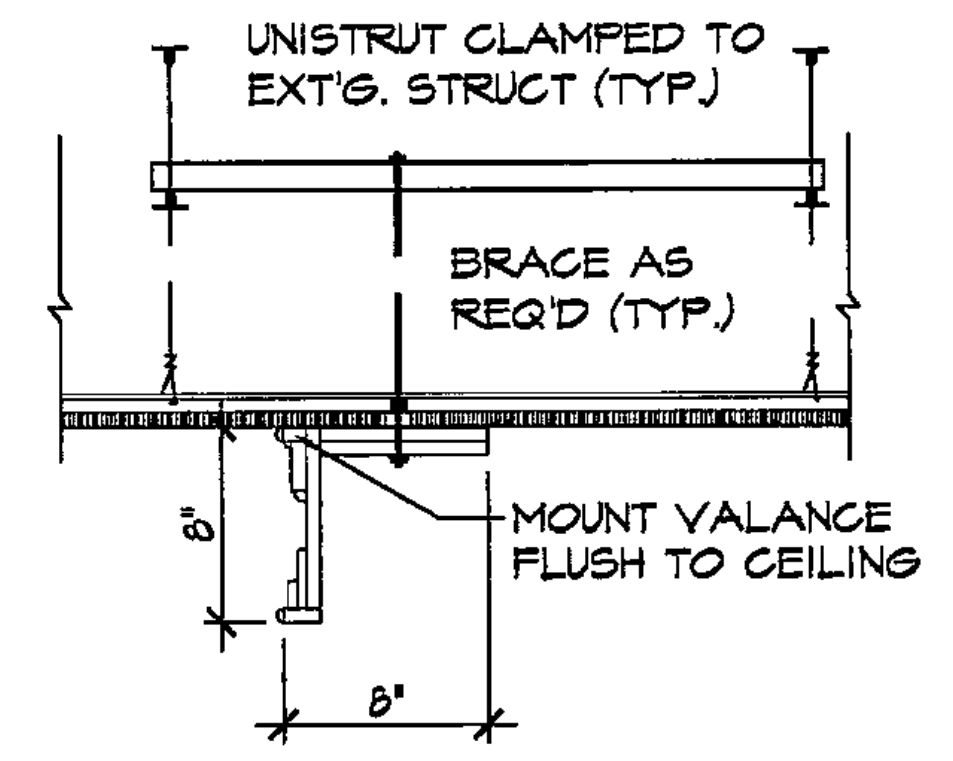
08 SPEAKER BRACKET DETAIL

SCALE: N.T.S.


UNISTRUT CLAMPED TO EXT'G. STRUCT (TYP.)
BRACE AS REQ'D (TYP.)
MOUNT VALANCE FLUSH TO CEILING
18"
5"
CUT OUT CEILING TILE AS NECESS.
MOUNT DUPLEX OUTLET IN CUTOUT THRU VALANCE BOARD
SPOTLIGHTS & CURTAIN TRACK PRE-INSTALLED BY VENDOR

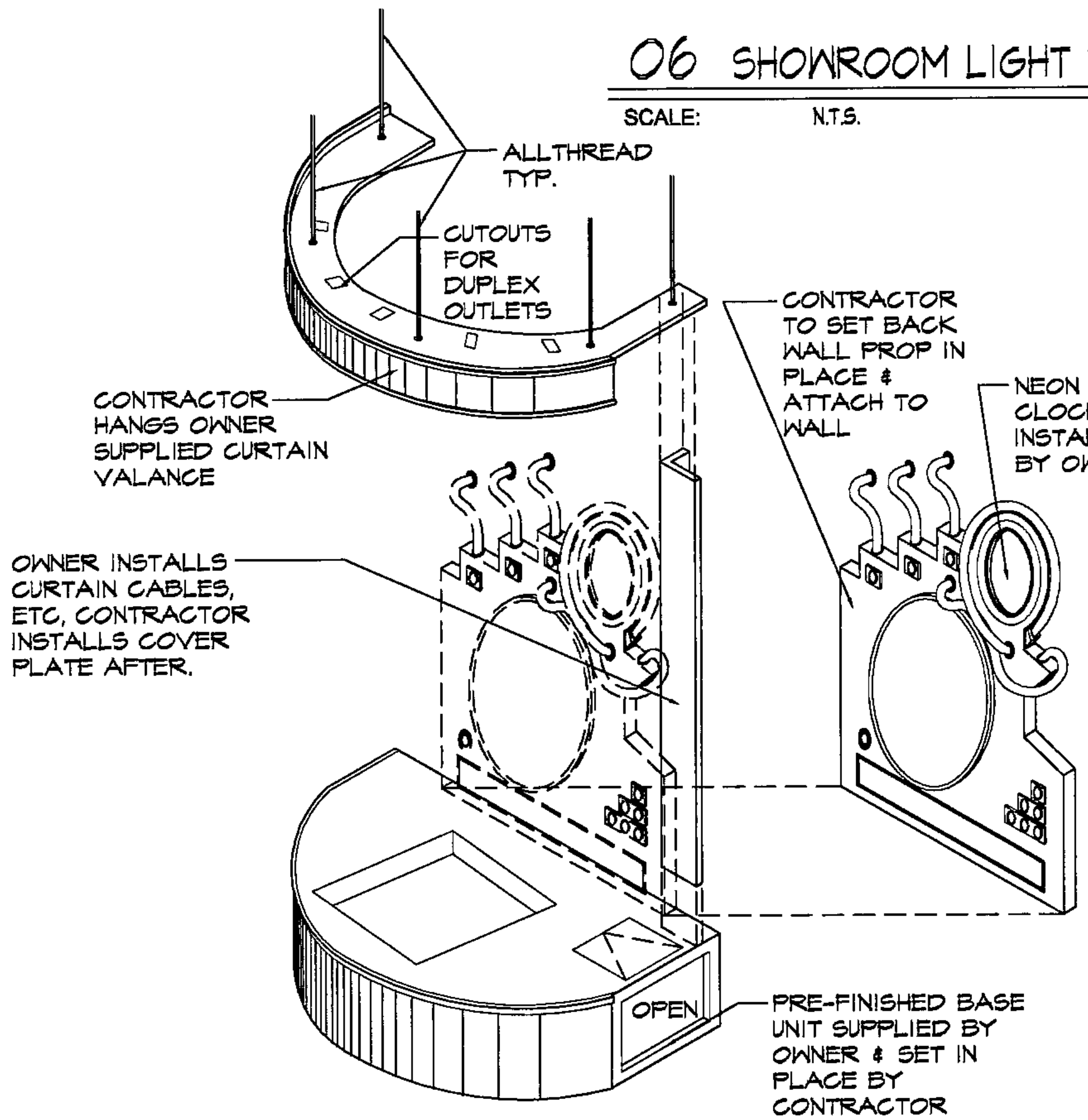
09 CURTAIN VALANCE

SCALE: N.T.S.


UNISTRUT CLAMPED TO EXT'G. STRUCT (TYP.)
BRACE AS REQ'D (TYP.)
8"
8"
MOUNT VALANCE FLUSH TO CEILING

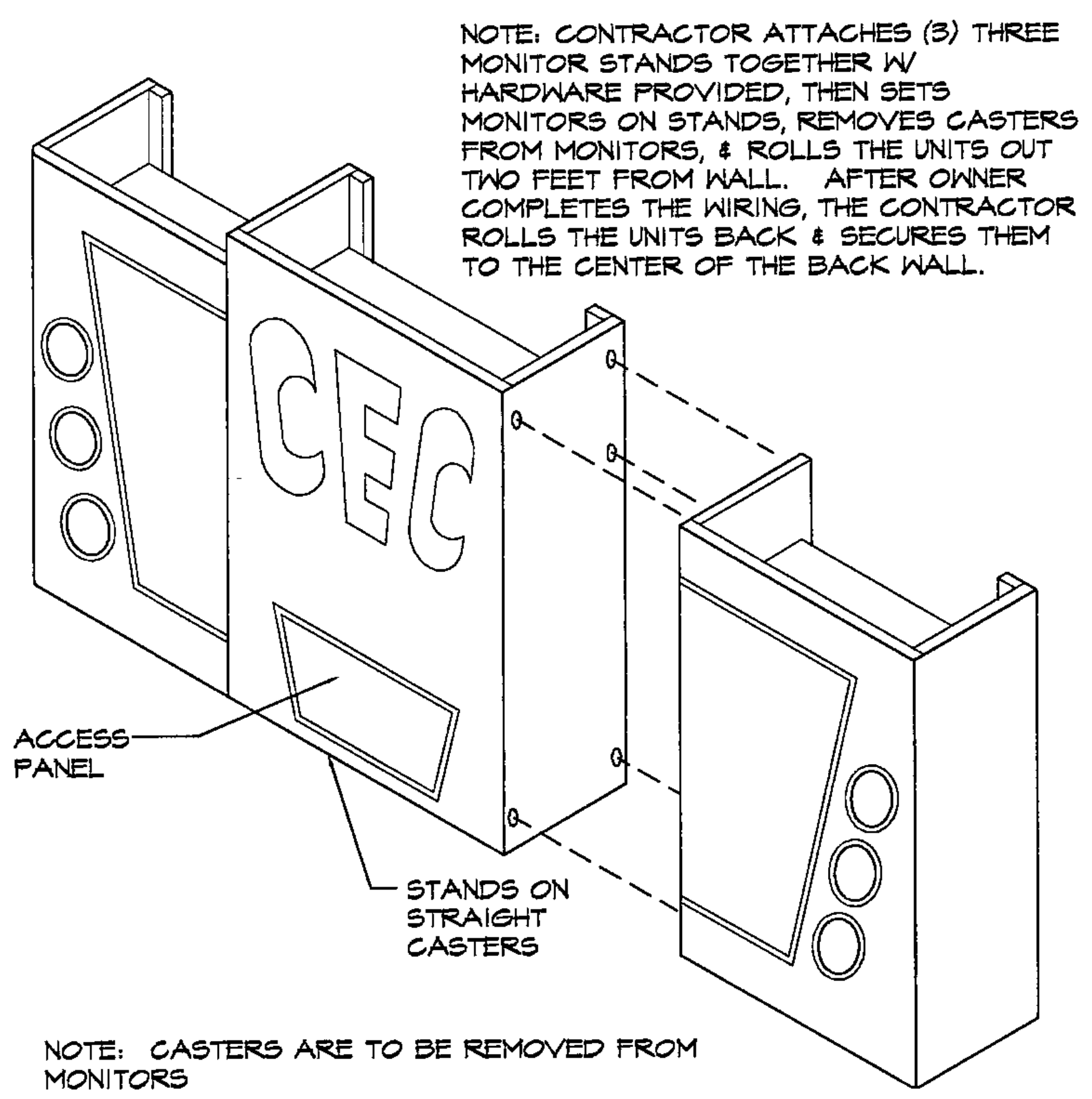
10 FALSE VALANCE

SCALE: N.T.S.


ALLTHREAD TYP.
CUTOUTS FOR DUPLEX OUTLETS
CONTRACTOR HANGS OWNER SUPPLIED CURTAIN VALANCE
OWNER INSTALLS CURTAIN CABLES, ETC, CONTRACTOR INSTALLS COVER PLATE AFTER.
CONTRACTOR TO SET BACK WALL PROP IN PLACE & ATTACH TO WALL
NEON CLOCK INSTALLED BY OWNER
OPEN
PRE-FINISHED BASE UNIT SUPPLIED BY OWNER & SET IN PLACE BY CONTRACTOR

11 ANIMATION STUDIO DETAIL

SCALE: N.T.S.

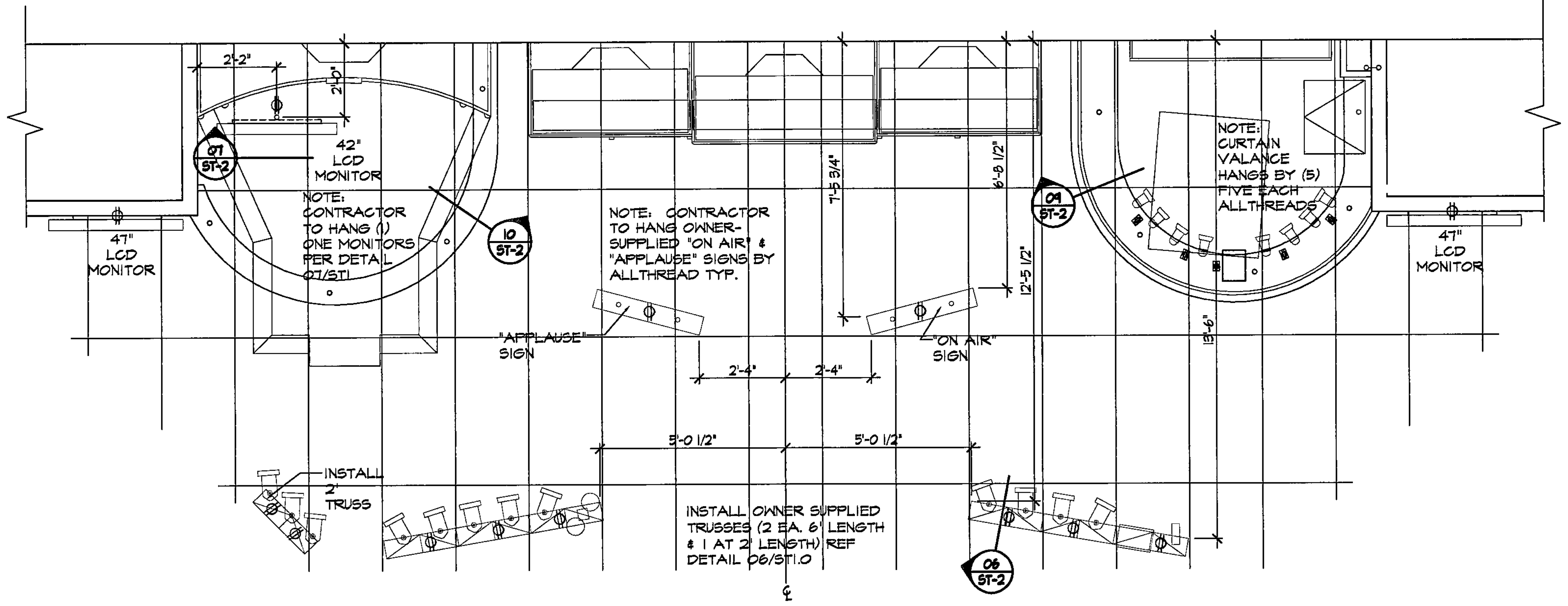


NOTE: CONTRACTOR ATTACHES (3) THREE MONITOR STANDS TOGETHER W/ HARDWARE PROVIDED, THEN SETS MONITORS ON STANDS, REMOVES CASTERS FROM MONITORS, & ROLLS THE UNITS OUT TWO FEET FROM WALL. AFTER OWNER COMPLETES THE WIRING, THE CONTRACTOR ROLLS THE UNITS BACK & SECURES THEM TO THE CENTER OF THE BACK WALL.

NOTE: CASTERS ARE TO BE REMOVED FROM MONITORS

12 MONITOR STAND DETAIL

SCALE: N.T.S.



NOTE: CONTRACTOR TO HANG (1) ONE MONITORS PER DETAIL 07/ST1

NOTE: CONTRACTOR TO HANG OWNER-SUPPLIED "ON AIR" & "APPLAUSE" SIGNS BY ALLTHREAD TYP.

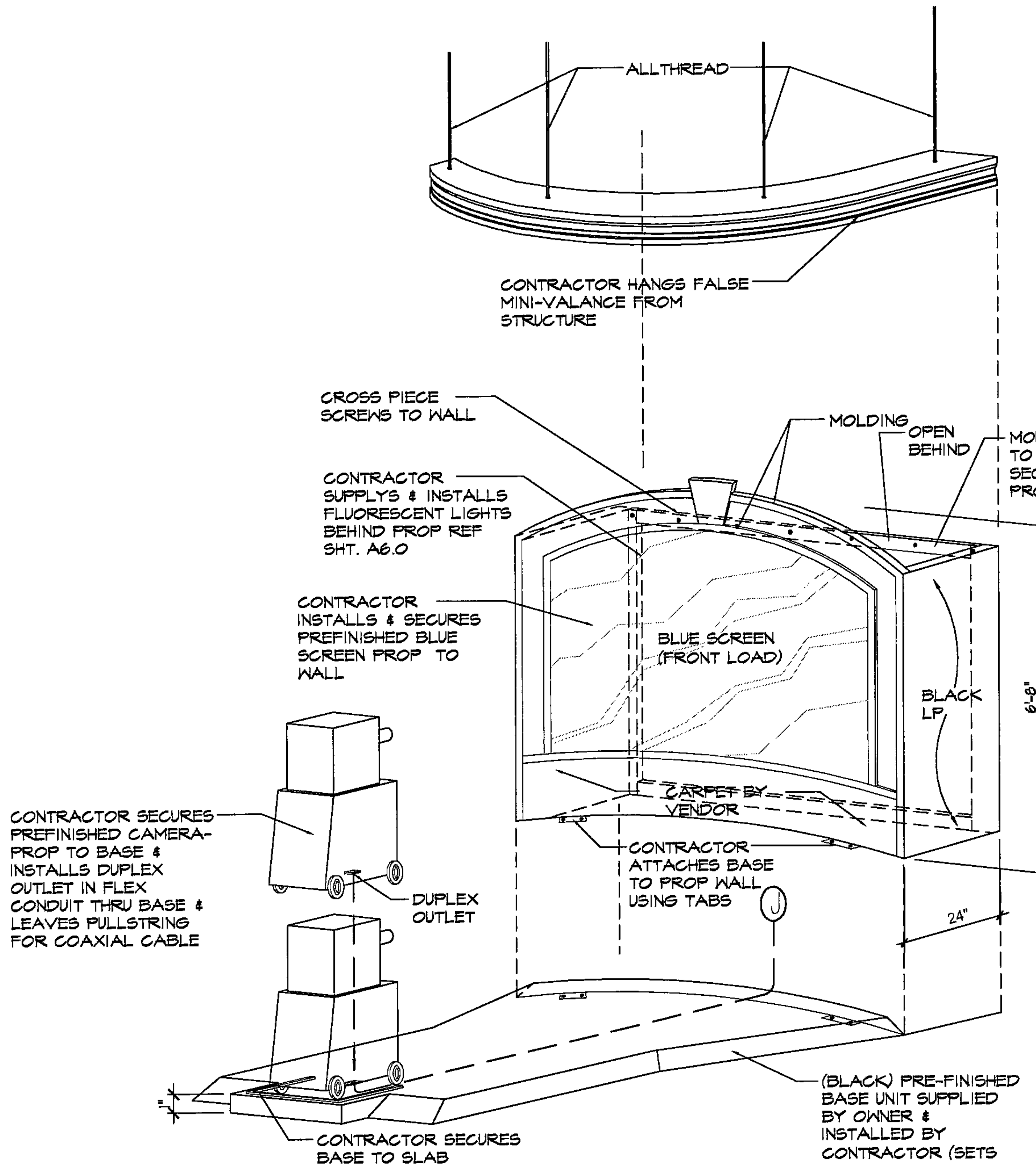
NOTE: CURTAIN VALANCE HANGS BY (5) FIVE EACH ALLTHREADS

INSTALL OWNER SUPPLIED TRUSSES (2 EA. 6' LENGTH & 1 AT 2' LENGTH) REF DETAIL 06/ST1.0

REFERENCE SHEET A3.0 FOR INFORMATION ON SPEAKER LAYOUT

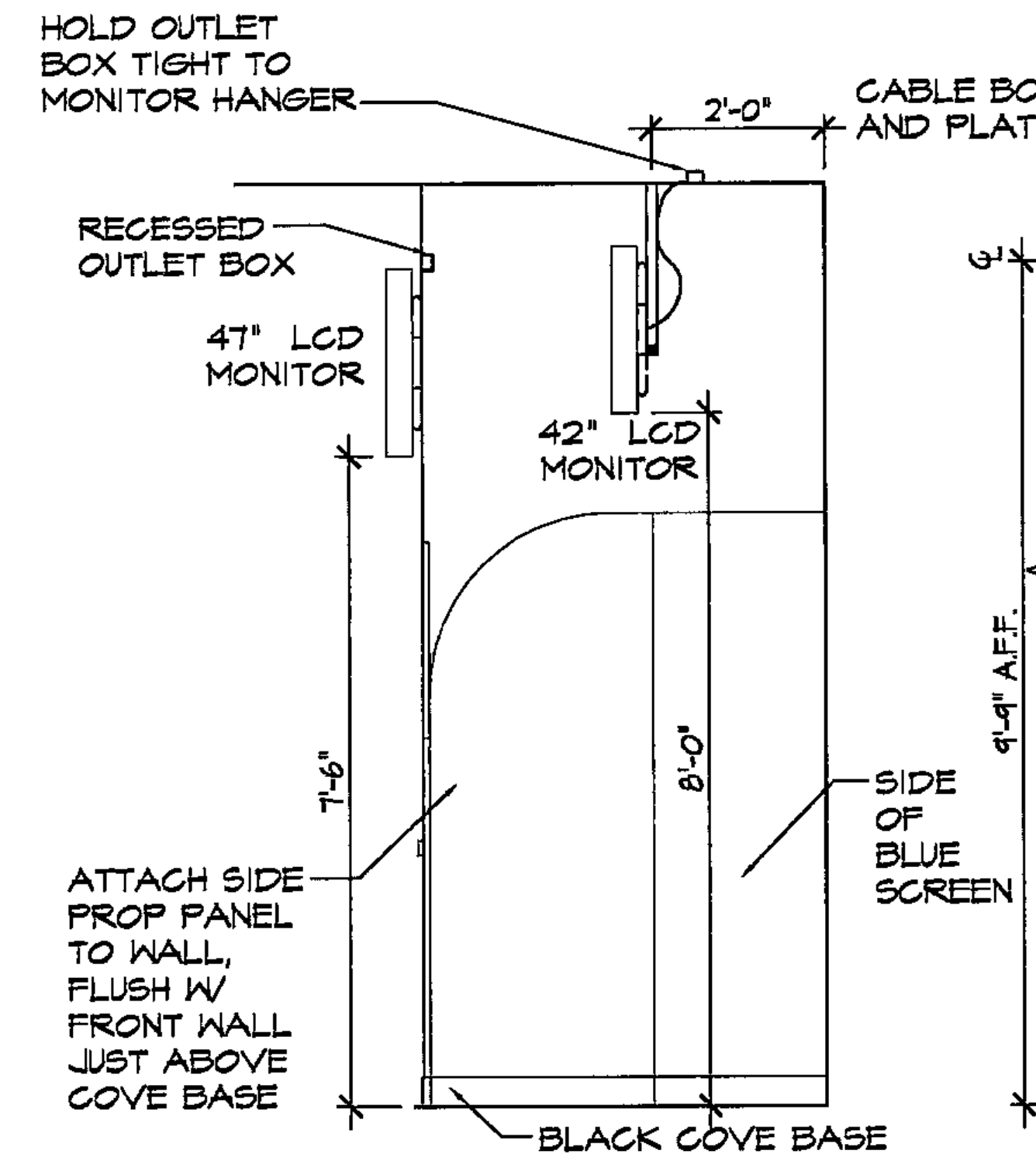
04 CEILING PLAN

SCALE: 3/8"=1'-0"


ALLTHREAD
CONTRACTOR HANGS FALSE MINI-VALANCE FROM STRUCTURE
CROSS PIECE SCREWS TO WALL
MOLDING
OPEN BEHIND
MOUNT CLEATS TO STUDS & SECURE TOP OF PROP TO WALL
CONTRACTOR SUPPLYS & INSTALLS FLUORESCENT LIGHTS BEHIND PROP REF SHT. A6.0
CONTRACTOR INSTALLS & SECURES PREFINISHED BLUE SCREEN PROP TO WALL
BLUE SCREEN (FRONT LOAD)
BLACK LP
6'-8"
CARPET BY VENDOR
CONTRACTOR ATTACHES BASE TO PROP WALL USING TABS
24"
CONTRACTOR SECURES PREFINISHED CAMERA-PROP TO BASE & INSTALLS DUPLEX OUTLET IN FLEX CONDUIT THRU BASE & LEAVES PULLSTRING FOR COAXIAL CABLE
DUPLEX OUTLET
CONTRACTOR SECURES BASE TO SLAB
(BLACK) PRE-FINISHED BASE UNIT SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR (SETS ON CARPET)

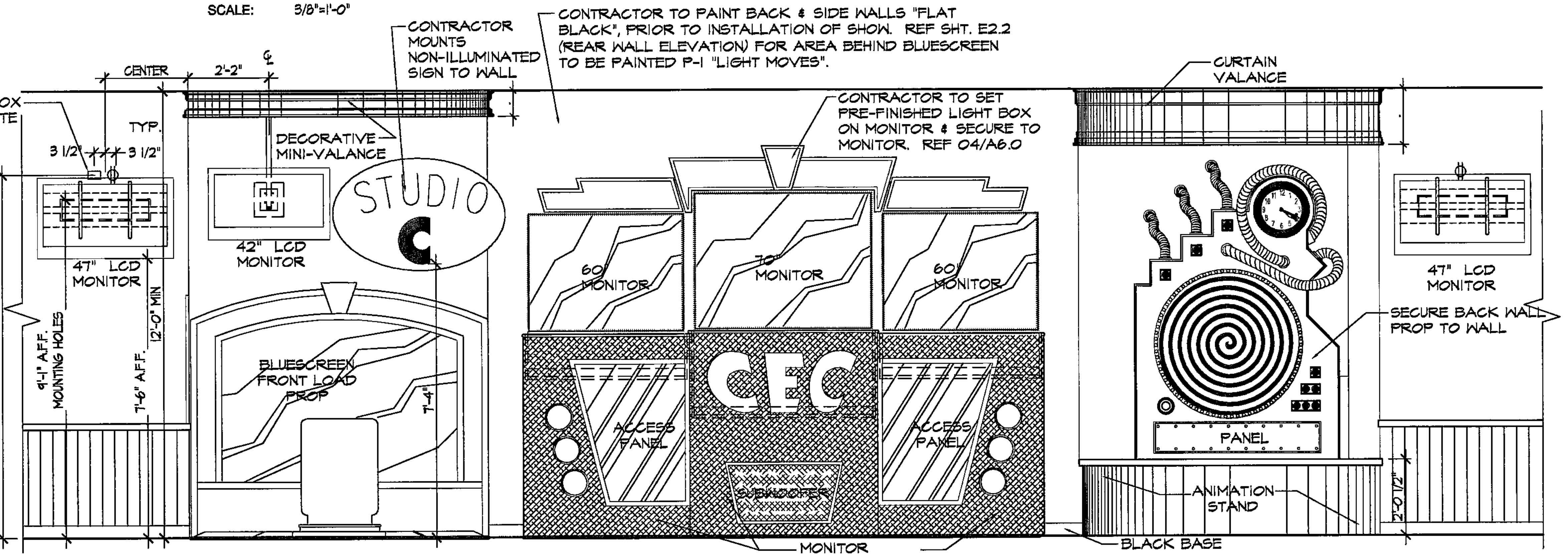
13 BLUE SCREEN DETAIL

SCALE: N.T.S.


HOLD OUTLET BOX TIGHT TO MONITOR HANGER
2'-0"
RECESSED OUTLET BOX
47" LCD MONITOR
42" LCD MONITOR
7'-6"
8'-0"
ATTACH SIDE PROP PANEL TO WALL, FLUSH W/ FRONT WALL JUST ABOVE COVE BASE
SIDE OF BLUE SCREEN
BLACK COVE BASE BY CONTRACTOR

03 LEFT SIDE WALL

SCALE: 3/8"=1'-0"



CONTRACTOR TO PAINT BACK & SIDE WALLS "FLAT BLACK", PRIOR TO INSTALLATION OF SHOW. REF SHT. E2.2 (REAR WALL ELEVATION) FOR AREA BEHIND BLUESCREEN TO BE PAINTED P-1 "LIGHT MOVES".

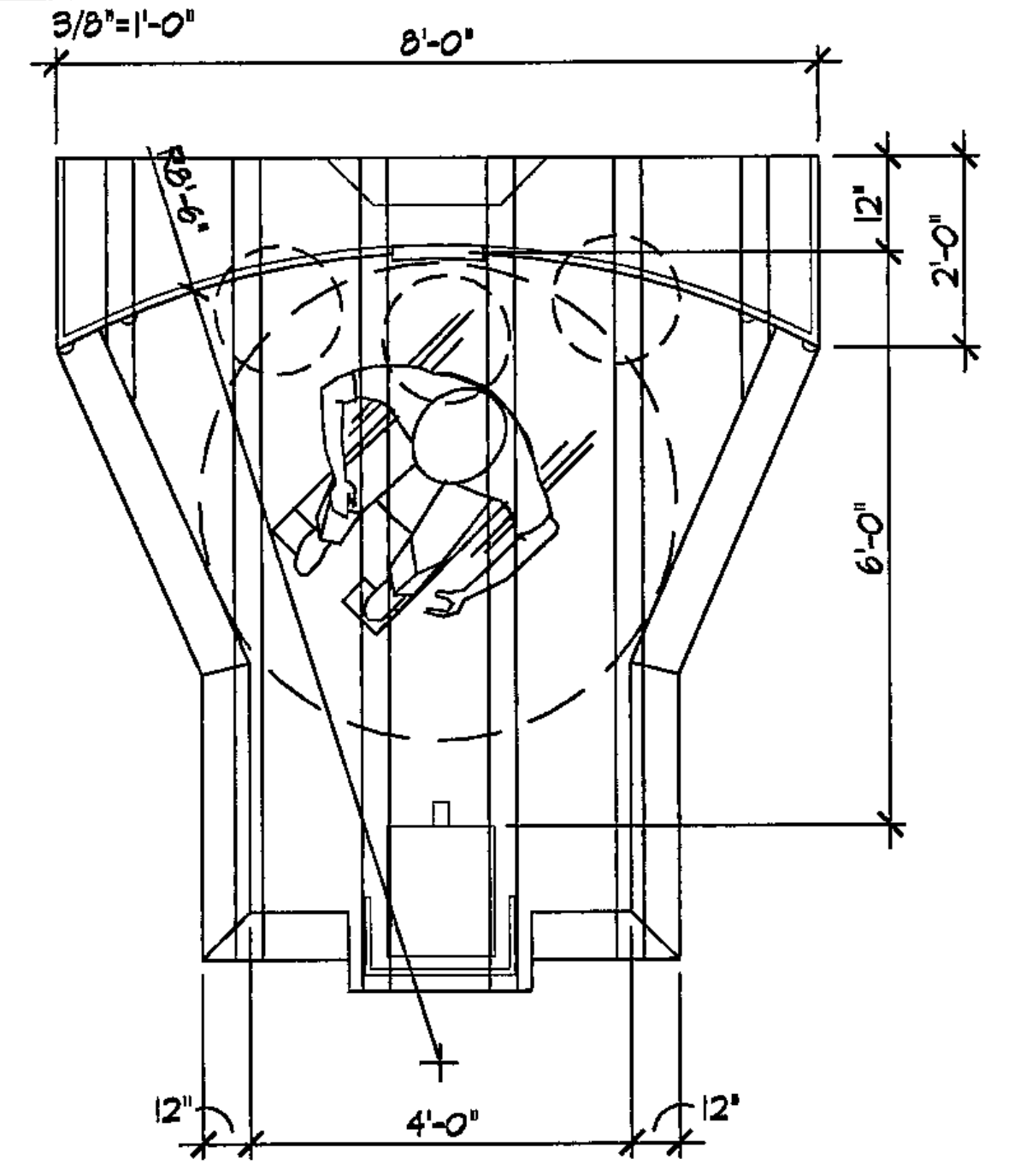
CONTRACTOR TO SET PRE-FINISHED LIGHT BOX ON MONITOR & SECURE TO MONITOR. REF 04/A6.0

BLACK BASE

1/2" COPPER AIR LINE-STUB OUT @ WALL 12" A.F.F. PROVIDE 1/2" BALL VALVE TO TERMINATE @ 1/2" QUICK DISCONNECT FEMALE

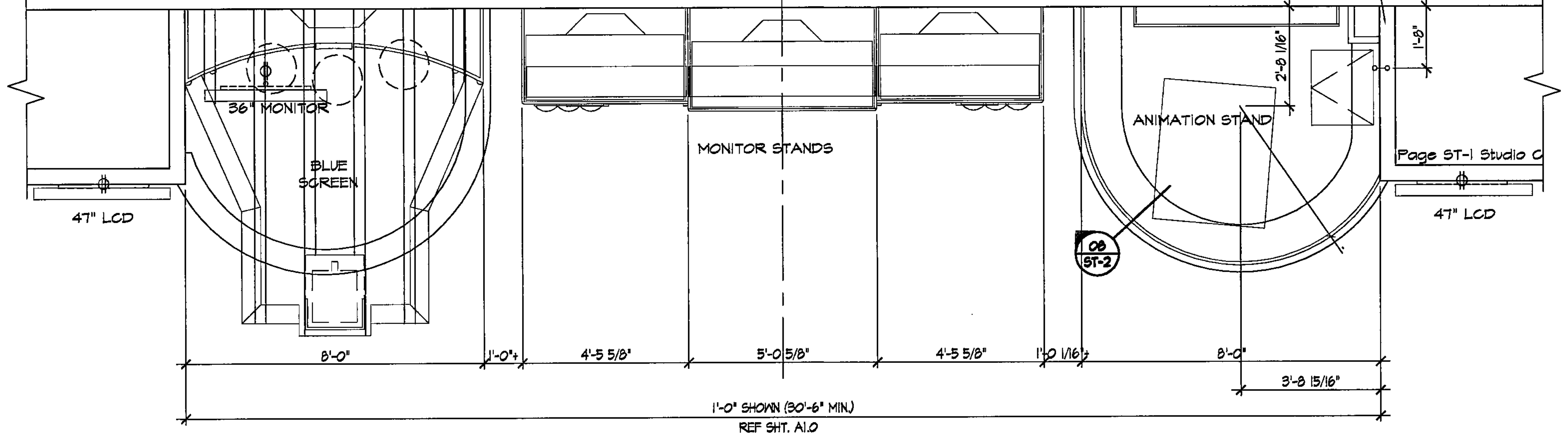
02 STUDIO "C" 2000 ELEVATION

SCALE: 3/8"=1'-0"



14 PLATFORM PLAN

SCALE: N.T.S.



01 STUDIO "C" 2000 PLAN

SCALE: 3/8"=1'-0"

REGISTRATION SEAL

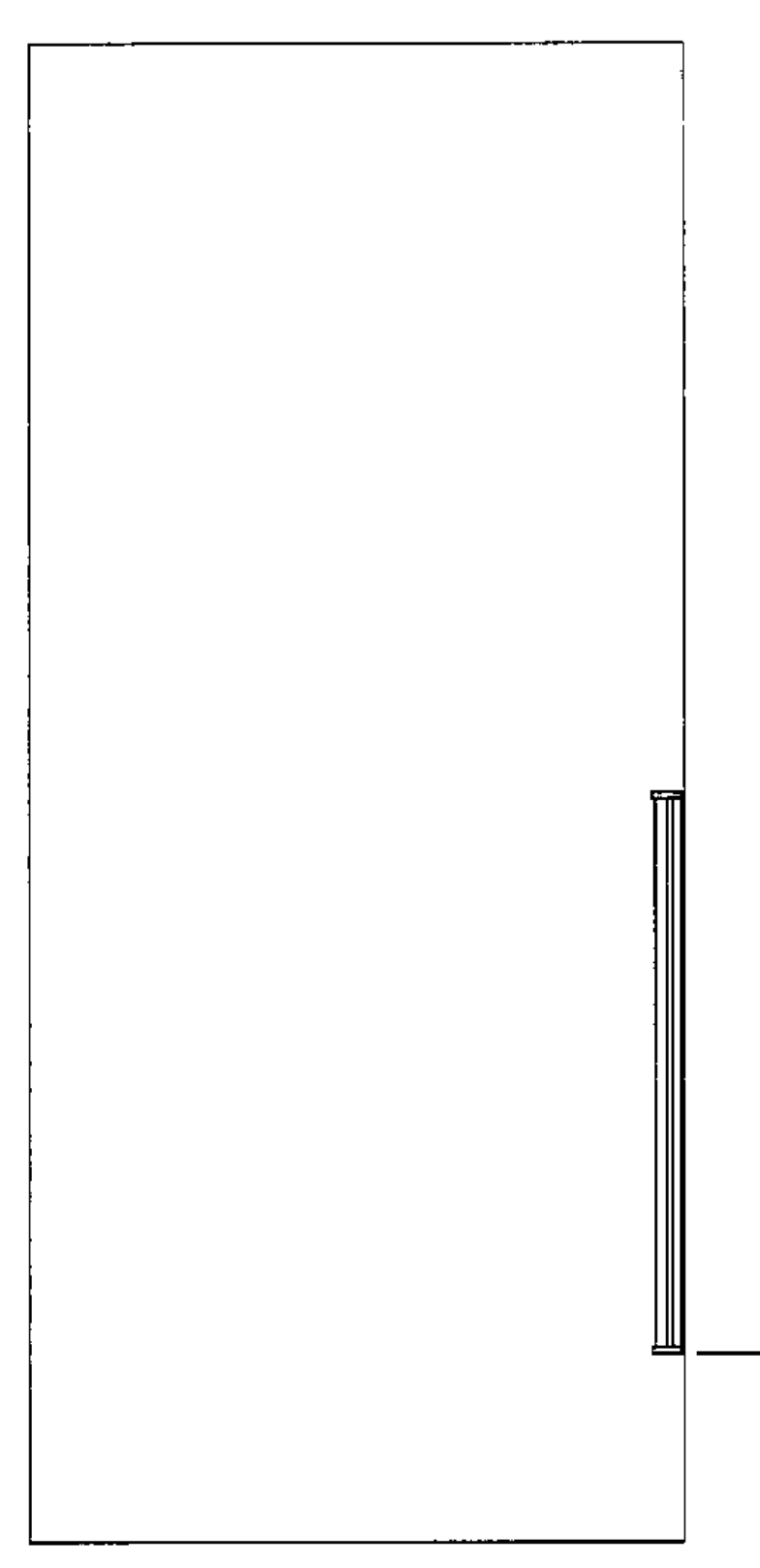
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

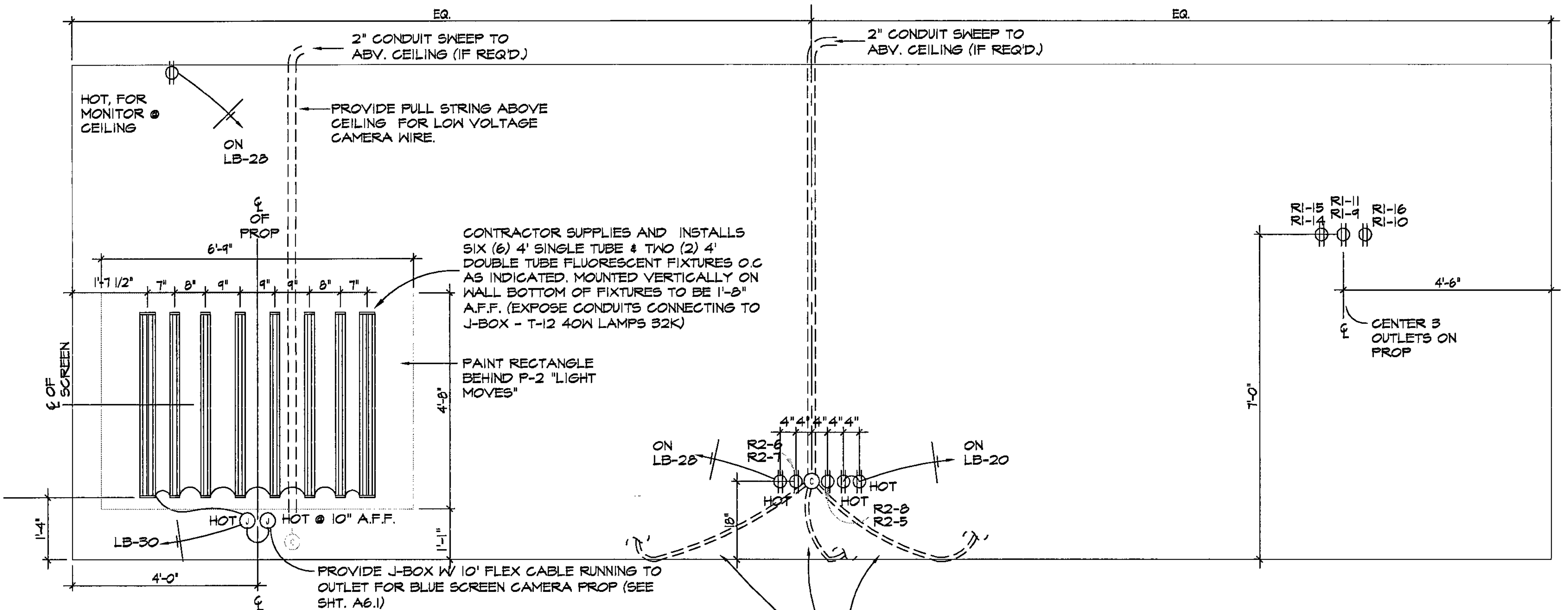
PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
STUDIO C DETAILS

ST1.0



02 LEFT WALL

SCALE: 1/2" = 1'-0"



EQ.
EQ.
℄
2" CONDUIT SWEEP TO ABV. CEILING (IF REQ'D.)
2" CONDUIT SWEEP TO ABV. CEILING (IF REQ'D.)
HOT, FOR MONITOR @ CEILING
ON LB-28
PROVIDE PULL STRING ABOVE CEILING FOR LOW VOLTAGE CAMERA WIRE.
℄ OF PROP
6'-9"
1'-7 1/2"
7"
8"
9"
9"
9"
8"
7"
CONTRACTOR SUPPLIES AND INSTALLS SIX (6) 4' SINGLE TUBE & TWO (2) 4' DOUBLE TUBE FLUORESCENT FIXTURES O.C AS INDICATED. MOUNTED VERTICALLY ON WALL BOTTOM OF FIXTURES TO BE 1'-8" A.F.F. (EXPOSE CONDUITS CONNECTING TO J-BOX - T-12 40W LAMPS 32K)
PAINT RECTANGLE BEHIND P-2 "LIGHT MOVES"
℄ OF SCREEN
4'-8"
1'-4"
1'-1"
HOT
HOT @ 10" A.F.F.
LB-30
4'-0"
℄
PROVIDE J-BOX W/ 10' FLEX CABLE RUNNING TO OUTLET FOR BLUE SCREEN CAMERA PROP (SEE SHT. A6.1)
4" 4" 4" 4" 4"
ON LB-28
R2-6
R2-7
HOT
HOT
HOT
R2-8
R2-5
18"
ON LB-20
R1-15
R1-14
R1-11
R1-9
R1-16
R1-10
4'-6"
7'-0"
CENTER 3 OUTLETS ON PROP
℄

03 REAR WALL

SCALE: 1/2" = 1'-0"

WIRING SCHEDULE

PANEL	CIRCUIT	RELAY	LOAD
PB-1	CIRCUIT LB-32 (1/20) 20 AMP BREAKER	R1-1	CEC RED FLOODS (2)
		R1-2	CEC GREEN FLOODS (2)
		R1-3	CEC BLUE FLOODS (2)
		R1-4	CEC AMBER FLOODS (2)
		R1-5	STROBE ON CEC STAGE
		R1-6	SPARE
		R1-7	SPARE
		R1-8	SPARE
	CIRCUIT LB-34 (1/20) 20 AMP BREAKER	R1-9	NEON CLOCK
		R1-10	SPARE
		R1-11	SPARE
		R1-12	SPARE
		R1-13	SPARE
		R1-14	CHUCK'S BACKDROP 1
		R1-15	CHUCK'S BACKDROP 2
		R1-16	CHUCK'S BACKDROP 3
PB-2	CIRCUIT LB-36 (1/20) 20 AMP BREAKER	R2-1	SPARE
		R2-2	SPARE
		R2-3	ON AIR SIGN
		R2-4	APPLAUSE SIGN
		R2-5	MONITOR ROPE LIGHT RED/YELLOW
		R2-6	MONITOR ROPE LIGHT RED/YELLOW
		R2-7	MONITOR ROPE LIGHT BLUE
		R2-8	MONITOR ROPE LIGHT PURPLE/GREEN
	CIRCUIT LB-38 (1/20) 20 AMP BREAKER	R2-9	SPARE
		R2-10	GEMINI/WARP (2)
		R2-11	CEC SPOT
		R2-12	SPARE
		R2-13	LIVE SPOT
		R2-14	AMBER ROOM FLOODS (1)
		R2-15	PINK ROOM FLOODS (2)
		R2-16	BLUE ROOM FLOODS (3)

NOTES:

A. RELAY CABINET "PB" SHALL BE FURNISHED BY OWNER, INSTALLED AND WIRED BY CONTRACTOR. LOW VOLTAGE CONNECTION BY OWNER.

B. CIRCUIT ROUTING IS DIAGRAMMATIC ONLY. EACH RECEPTACLE AND EACH HALF OF THE SPLIT RECEPTACLE SHALL HAVE TWO WIRES. HOT AND NEUTRAL BACK TO RELAY CABINET "PB".

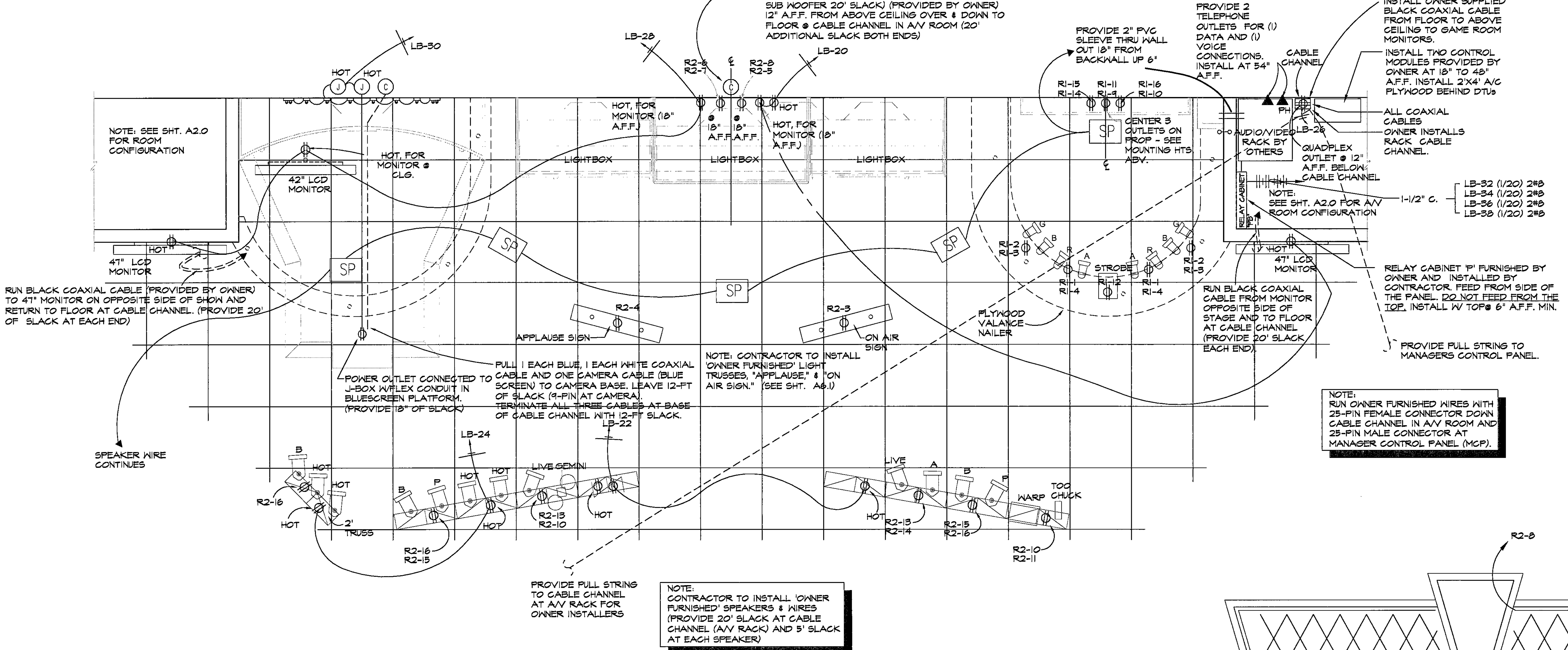
C. ALL WIRING SHALL BE CAREFULLY MARKED AT EACH END.

D. USE #12 AWG CONDUCTORS IN 3/4" CONDUIT

E. ALL NUMBERED OUTLETS ARE CONTROLLED BY RELAY CABINET "PB".

F. FOR WIRING FROM RELAY CABINET "PB". REFER TO "WIRING SCHEDULE DIAGRAM" FOR THE CONFIGURATION OF COMMON NEUTRALS.

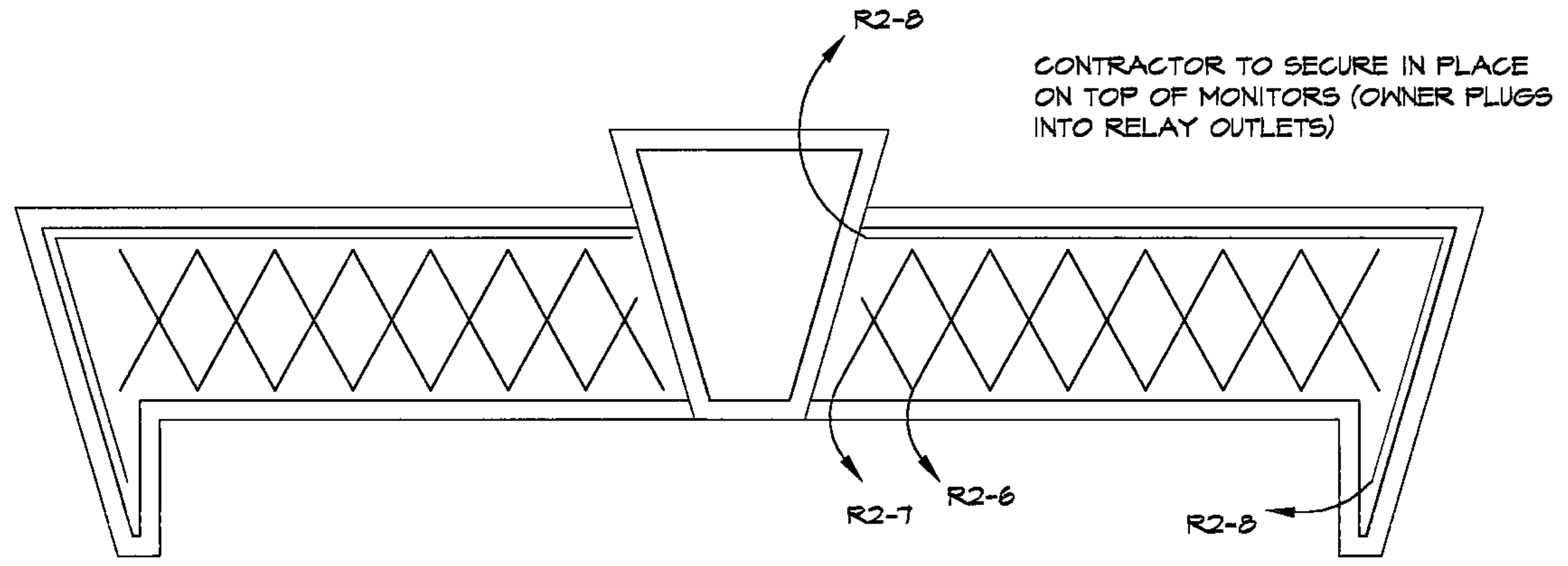
G. EXCEPT AS OTHERWISE INDICATED, FOR BRANCH CIRCUITS FROM PANEL LB. A COMMON NEUTRAL MAY BE RUN FOR MULTIPLE CIRCUITS PER N.E.C.



DROP ONE ORANGE, ONE YELLOW AND ONE RED COAXIAL CABLES AND ONE SPEAKER WIRE (FOR SUB WOOFER 20' SLACK) (PROVIDED BY OWNER) 12" A.F.F. FROM ABOVE CEILING OVER & DOWN TO FLOOR @ CABLE CHANNEL IN A/V ROOM (20' ADDITIONAL SLACK BOTH ENDS)
LB-30
HOT
HOT
LB-28
R2-6
R2-7
℄
R2-8
R2-5
LB-20
NOTE: SEE SHT. A2.0 FOR ROOM CONFIGURATION
HOT, FOR MONITOR @ CLG.
42" LCD MONITOR
HOT, FOR MONITOR (18" A.F.F.)
@ 18" A.F.F.
@ 18" A.F.F.
HOT
HOT, FOR MONITOR (18" A.F.F.)
LIGHTBOX
LIGHTBOX
LIGHTBOX
HOT
47" LCD MONITOR
SP
SP
SP
SP
SP
RUN BLACK COAXIAL CABLE (PROVIDED BY OWNER) TO 47" MONITOR ON OPPOSITE SIDE OF SHOW AND RETURN TO FLOOR AT CABLE CHANNEL. (PROVIDE 20' OF SLACK AT EACH END)
R2-4
APPLAUSE SIGN
R2-3
ON AIR SIGN
POWER OUTLET CONNECTED TO J-BOX W/FLEX CONDUIT IN BLUESCREEN PLATFORM. (PROVIDE 18" OF SLACK)
PULL 1 EACH BLUE, 1 EACH WHITE COAXIAL CABLE AND ONE CAMERA CABLE (BLUE SCREEN) TO CAMERA BASE. LEAVE 12-FT OF SLACK (9-PIN AT CAMERA).
~~TERMINATE ALL THREE CABLES AT BASE~~ OF CABLE CHANNEL WITH 12-FT SLACK.
NOTE: CONTRACTOR TO INSTALL 'OWNER FURNISHED' LIGHT TRUSSES, "APPLAUSE," & "ON AIR SIGN." (SEE SHT. A6.1)
SPEAKER WIRE CONTINUES
LB-24
LB-22
B
HOT
HOT
R2-16
HOT
2' TRUSS
B
P
HOT
HOT
LIVE GEMINI
HOT
R2-16
R2-15
R2-13
R2-10
HOT
PROVIDE PULL STRING TO CABLE CHANNEL AT A/V RACK FOR OWNER INSTALLERS
NOTE:
CONTRACTOR TO INSTALL 'OWNER FURNISHED' SPEAKERS & WIRES (PROVIDE 20' SLACK AT CABLE CHANNEL (A/V RACK) AND 5' SLACK AT EACH SPEAKER)
LIVE
A
B
P
WARP
TOO CHUCK
HOT
R2-13
R2-14
R2-15
R2-16
R2-10
R2-11
PROVIDE 2" PVC SLEEVE THRU WALL OUT 18" FROM BACKWALL UP 6"
R1-15
R1-14
R1-11
R1-9
R1-16
R1-10
CENTER 3 OUTLETS ON PROP - SEE MOUNTING HTS ABV.
℄
G
B
R
A
STROBE
A
R
B
G
R1-2
R1-3
R1-1
R1-4
R1-12
R1-1
R1-4
R1-2
R1-3
PLYWOOD VALANCE NAILER
PROVIDE 2 TELEPHONE OUTLETS FOR (1) DATA AND (1) VOICE CONNECTIONS. INSTALL AT 54" A.F.F.
CABLE CHANNEL
INSTALL OWNER SUPPLIED BLACK COAXIAL CABLE FROM FLOOR TO ABOVE CEILING TO GAME ROOM MONITORS.
INSTALL TWO CONTROL MODULES PROVIDED BY OWNER AT 18" TO 48" A.F.F. INSTALL 2'X4' A/C PLYWOOD BEHIND DTUs
PH
LB-26
AUDIO/VIDEO RACK BY OTHERS
ALL COAXIAL CABLES
OWNER INSTALLS RACK CABLE CHANNEL.
QUADPLEX OUTLET @ 12" A.F.F. BELOW CABLE CHANNEL
RELAY CABINET "PB"
NOTE: SEE SHT. A2.0 FOR A/V ROOM CONFIGURATION
1-1/2" C.
LB-32 (1/20) 2#8
LB-34 (1/20) 2#8
LB-36 (1/20) 2#8
LB-38 (1/20) 2#8
HOT
47" LCD MONITOR
RUN BLACK COAXIAL CABLE FROM MONITOR OPPOSITE SIDE OF STAGE AND TO FLOOR AT CABLE CHANNEL (PROVIDE 20' SLACK EACH END).
RELAY CABINET 'P' FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. FEED FROM SIDE OF THE PANEL. DO NOT FEED FROM THE TOP. INSTALL W/ TOP@ 6" A.F.F. MIN.
PROVIDE PULL STRING TO MANAGERS CONTROL PANEL.
NOTE:
RUN OWNER FURNISHED WIRES WITH 25-PIN FEMALE CONNECTOR DOWN CABLE CHANNEL IN A/V ROOM AND 25-PIN MALE CONNECTOR AT MANAGER CONTROL PANEL (MCP).

01 STUDIO 'C' 2000 LIGHTING & ELECTRICAL PLAN

SCALE: 1/2" = 1'-0"



R2-8
CONTRACTOR TO SECURE IN PLACE ON TOP OF MONITORS (OWNER PLUGS INTO RELAY OUTLETS)
R2-7
R2-6
R2-8

04 MONITOR LIGHT BOX

SCALE: 1" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2983
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
STUDIO "C" PLAN

ST1.1

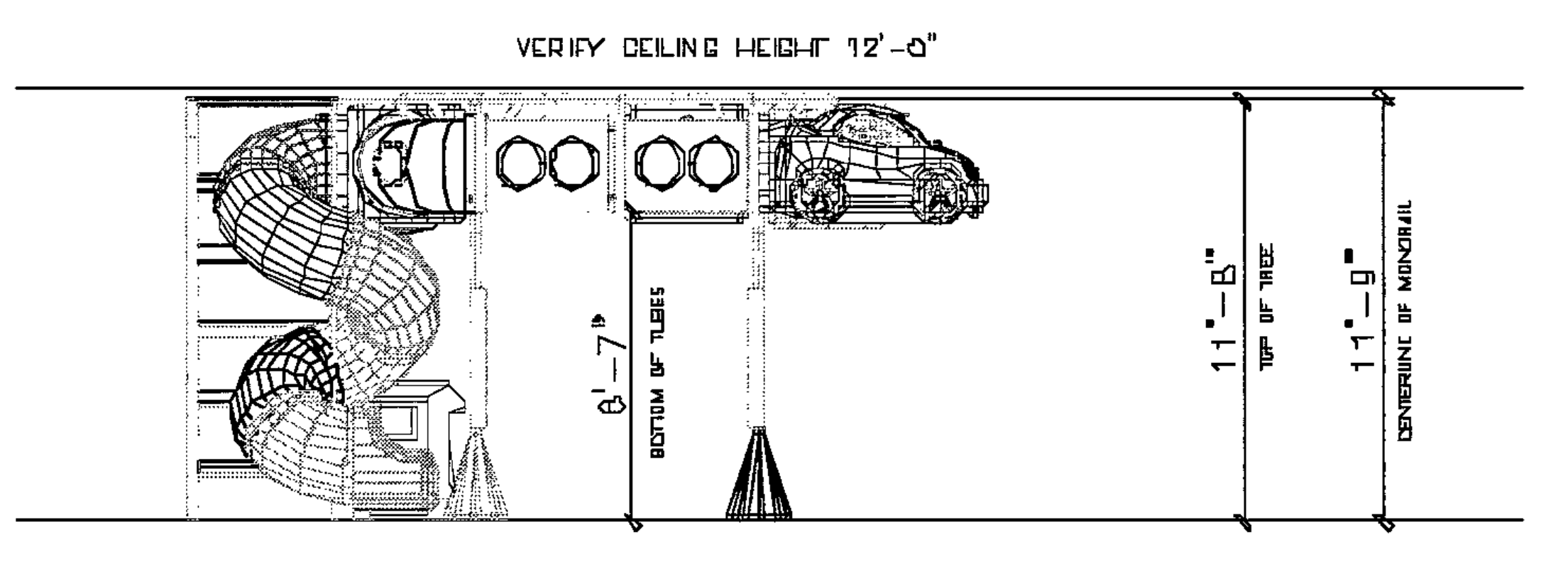
REVISIONS			DATE
ARCHITECT: ARCVISION			03/02/10
FINALIZED GAMES PACKAGE BY: JUAN GARZA			03/04/10
SKYCRAWL MODEL FROM SOFTPLAY: XXXXXX			XX/XX/XX
ADDITIONAL IMPROVEMENTS	SYMBOL	QUANTITY	DATE
FLOOR OUTLETS	⊙	XX	XX/XX/XX
WALL OUTLETS	⏀	XX	
20 AMP DUPLEXER	⊡ 20 AMP	XX	
20/20 AMP DUPLEXER	⊡ 20/20 AMP	XX	
PHONE LINES	▼	XX	
FLOOR AIRLINE	☐	XX	
CEILING DUPLEXERS	▨	XX	
AIRLINE	○	XX	
DATA LINES	▽		

SEATING

LOCATION	COUNT
SHOWROOM	288
KIDDIE	119
SKILLS	113
TOTAL SEATING	516

SQUARE FOOTAGE

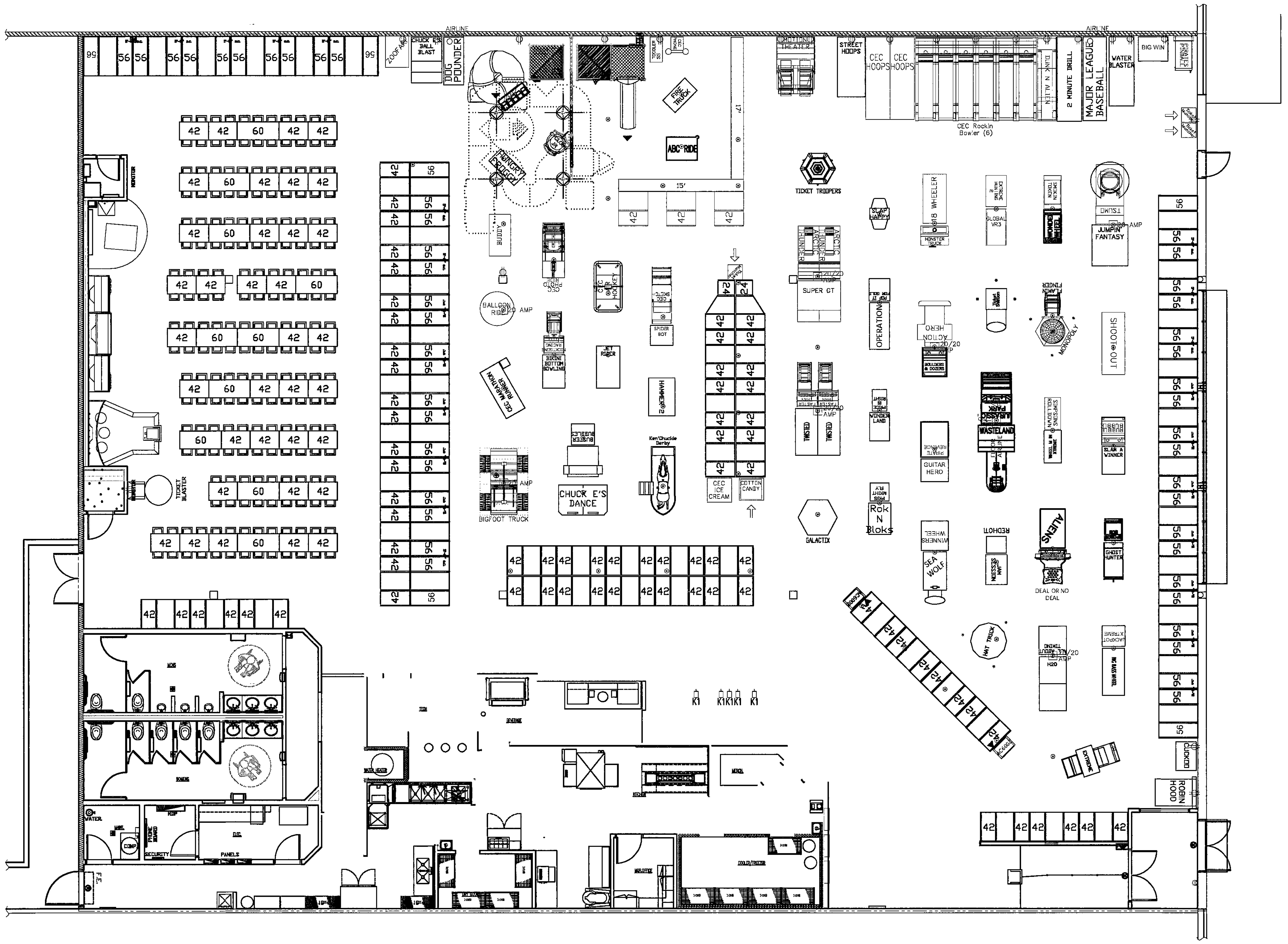
KIDDIE AREA:	1,652 SQ.FT.	3 2%
SKILLS AREA:	3,529 SQ.FT.	6 8%
TOTAL GAMES AREA:	5,181 SQ.FT.	3 7%
TOTAL AREA:	14,010 SQ.FT.	

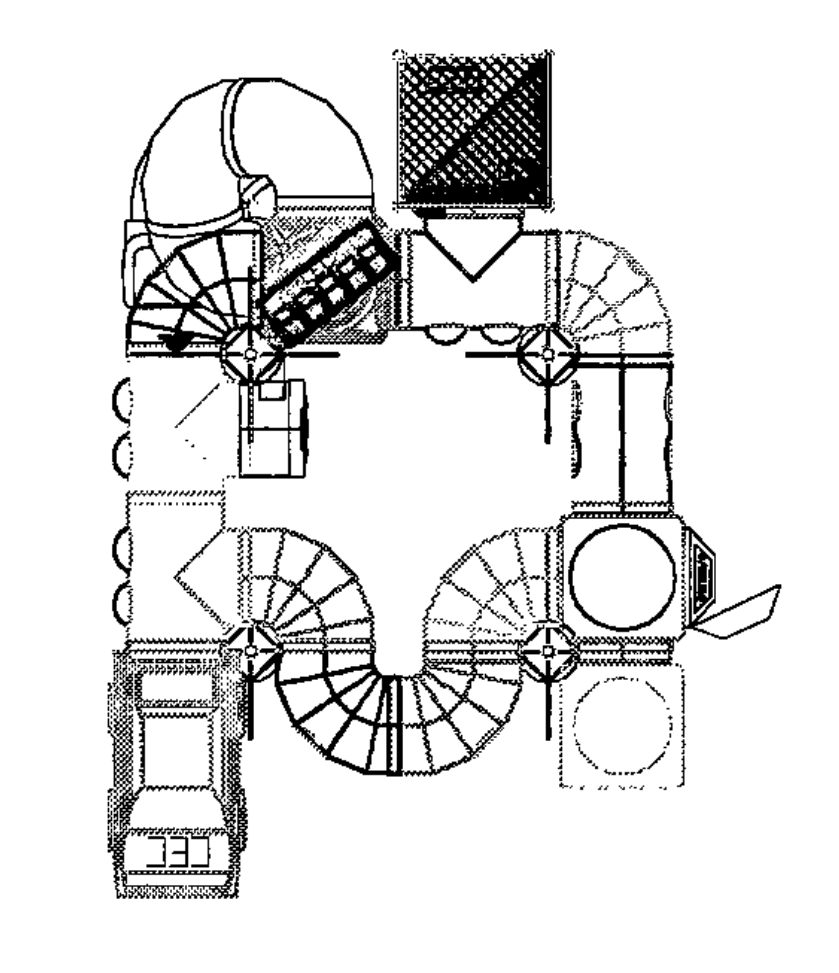


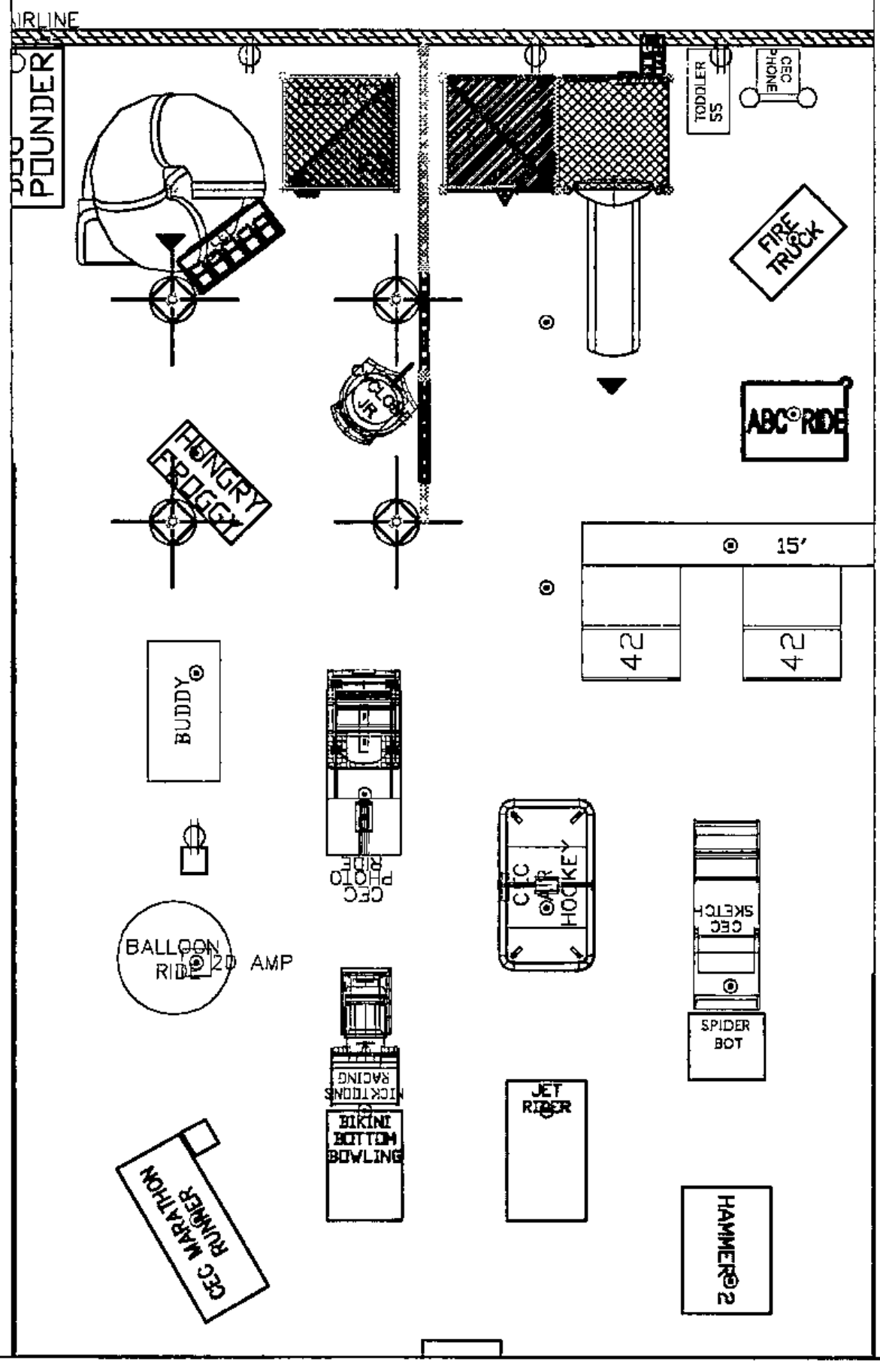
SCOPE NOTES:

1. NEW SITE
2. BENCHES: 15 FOOT, 17 FOOT

APPROVAL:



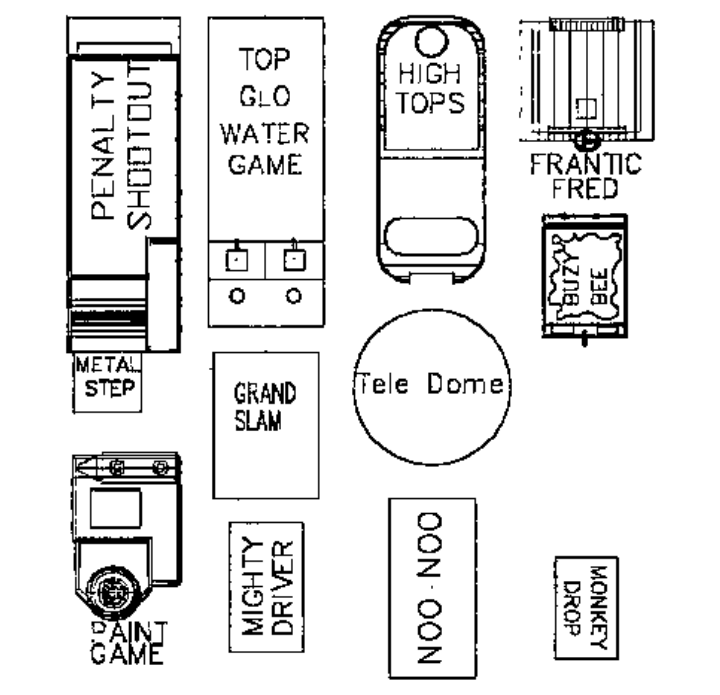




GAMES COLOR LEGEND

RED	EXISTING GAMES
BLUE	SPT TRANSFER
GREEN	NEW GAMES
BROWN	SKILL ADDENDUM
BLACK	STORE TRANSFER

GAMES TO BE SCRAPPED



GAMES TO SPT

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SQUARE FOOTAGE		
KIDDIE AREA:	1,652	SQ.FT.
SKILLS AREA:	3,529	SQ.FT.
TOTAL GAMES AREA:	5,181	SQ.FT.
TOTAL AREA:	14,010	SQ.FT.
CEILING HT:	12'-0"	
DATE REVISED:	MARCH 04, 2010	

PLAYER CABINETS	
SKILLS :	52
KIDDIE :	8
VIDEOS:	35
TOTAL CABINETS:	95

PLAYER POSITIONS	
SKILLS :	52
KIDDIE :	8
VIDEOS:	44
TOTAL POSITIONS:	104
REVISION:	B-R1

CHUCK E. CHEESE'S PIZZA NO. 312
C.E.C. ENTERTAINMENT, INC.
4441 WEST AIRPORT FREEWAY
IRVING, TEXAS 75062

FAYETTVILLE, AR

GAMES PLAN

BALL CRAWL SQUARE FOOTAGE: XXXX
TOTAL WALL LINEAR FOOTAGE: XXX'-XXX"

FINAL GAME LAYOUT
FOR CONSTRUCTION
APPROVAL: ______
APPROVAL: ______
APPROVAL: ______

Unit
P24146
Date
02/11/10
Scale
1/8" = 1'
Sheet Number
G1
1 of 2

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 00220 - GEOTECHNICAL DATA

1. Subsurface Report

a. The Owner has had a subsurface investigation performed by a geotechnical consultant, the results of which are contained on the structural drawings. The consultants report presents his conclusions on subsurface conditions, based on his interpretations of the data obtained in the investigation. The Contractor acknowledges that he has reviewed the consultants report and any addenda thereto, and that his Bid for excavation operations, including all necessary rock removal, is based on subsurface condition as described in that report. It is recognized that a subsurface investigation may not disclose all conditions, as they actually exist between the time of a subsurface investigation and the time of excavation operations. In recognition of these facts, this clause is entered in the Contract to provide a means of equitable additional compensation for the Contractor if adverse unanticipated conditions are encountered, and to provide a means of rebate to the Owner if the conditions are more favorable than anticipated.

b. At any point in time during excavation operations that the Contractor encounters conditions that are different than those anticipated by the foundation consultants report, he shall immediately (within 24 hours) bring this fact to the Owners attention. Once a fact of unanticipated conditions has been brought to the attention of the Owner, and the consultant has concurred, immediate negotiations will be undertaken between the Owner and the Contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The Contractor agrees that his stated unit price would apply for additional or reduced work under the Contract.

c. The soil investigation report is not intended as representations or warranties of accuracy of continuity between soil borings, and furnished only as a matter of convenience to the Bidder.

SECTION 01451 – TESTING AND INSPECTION SERVICES

1. SUMMARY
   a. This Section includes the following:
      1. Earthwork Testing and Inspection Service.
      2. Asphalt Paving Testing and Inspection Service.
      3. Cement Concrete Paving Testing and Inspection Service.
      4. Concrete Testing and Inspection Service.
      5. Structural Steel, Steel Joist and Metal Deck Inspection Service.
      6. Rough Carpentry.
      7. Air Balance Testing and Inspection Service.

2. TESTING - GENERAL

a. The Owner employs one or more special inspectors who provide inspections during construction on the types of work listed under Section 1701 of the IBC and article 1.6 below.

b. The Contractor shall provide such equipment and facilities as the Testing Agency may require for conducting field tests and for collecting and forwarding samples. The Contractor shall not use any materials or equipment represented by samples until tests, if required, have been made and the materials or equipment found to be acceptable. Any product which becomes unfit for use after acceptance shall not be incorporated into the work.

c. All materials or equipment, proposed to be used, may be tested at any time during their preparation or use. The Contractor shall furnish the required samples without charge and shall coordinate testing with the Owner's Representative and/or Testing Agency to allow sufficient time for testing before placing orders or starting work. Products may be tested either prior to shipment or after being received at the jobsite.

d. Tests shall be made by an accredited testing agency with a minimum of 5 years experience in the specific type of testing to be performed. Except as otherwise provided, sampling and testing of all materials and the laboratory methods and testing equipment shall be in accordance with the latest standards and tentative methods of the American Society for Testing Materials (ASTM).

e. Where additional or specific information concerning testing methods, samples sizes, etc., is required, such information is included under this section of the Specifications.

3. TESTING REQUIRED OF CONTRACTORS
The following testing shall be performed at the expense of the Contractor installing the material being tested:

a. Material or Method Substitution: Any tests of basic material, fabrication equipment or method offered as a substitute for specified items or methods on which a test may be required in order to prove its compliance with the specifications.

b. Product Performance Verification: The Supplier of products specified based on performance criteria shall, at the request of the Architect or Structural Engineer, inspect the installed product and certify conformance of the product to specified criteria under the installed conditions.

c. Corrective measures resulting from any test that fails shall be paid for by the installing contractor and shall be subject to the following conditions:
   1. Quantity and nature of additional testing, if required, will be determined by the responsible consultant.
   2. All additional tests shall be taken in the presence of the responsible consultant or his representative.
   3. Proof of noncompliance will make the installing contractor liable for any corrective action which the responsible consultant feels is prudent, including complete removal and replacement of defective material.
   4. Nothing contained herein is intended to imply that the installing contractor does not have the right to have tests performed on any material at any time for his own information and job control so long as the Owner does not assume responsibility for costs or for giving them consideration when appraising quality of materials.

4. CONTRACTOR'S QUALITY CONTROL SYSTEM

a. General: The General Contractor shall establish a quality control system and shall perform sufficient inspection and tests of all items of work, including that of his subcontractors, to ensure conformance to the Contract Documents for materials, workmanship, construction, finish, functional performance and identification. Contractor's quality control system is the means by which he assures himself that his construction complies with the requirements of the Contract Documents. Controls shall be adequate to cover all construction operations. Quality Assurance/Construction inspections conducted by the Owner's independent testing agency does not relieve the Contractor of the requirement to provide a quality control program.

5. MANUFACTURER'S FIELD SERVICES

a. When specified in respective Specification sections, Contractor shall require supplier or manufacturer to provide qualified personnel to observe field conditions, conditions of surfaces and installation, quality of workmanship, testing, and to make appropriate recommendations.
b Manufacturer's representative shall submit written report to the Architect and responsible Engineer listing observations and recommendations.

6 INDEPENDENT TESTING AGENCY SERVICES

a. General: The Owner will employ and pay for the services of an independent Testing Agency to perform the following inspections, tests and other services. Services shall be performed in accordance with requirements of governing authorities and with specified standards.

b Testing Agency Qualifications
   1. For each type of inspection and testing service to be performed, the Testing Agency shall submit certification, signed and sealed by the Agency's professional engineer, of compliance with all applicable requirements of the following:
      a. ASTM E329, "Standard Recommended Practice for Inspection Agencies for Concrete, Steel and Bituminous Materials Used in Construction."
      b. "Recommended Requirements for Independent Laboratory Qualifications" published by the American Council of Independent Laboratories.

   2. Furnish evidence, satisfactory to the Structural Engineer, that all equipment to be used has been calibrated in accordance with applicable ASTM standards within the last year and is in proper working order.

   3. Testing and inspection services shall be performed only by trained and experienced technicians currently qualified for the work they are to perform. Documentation of such training and experience shall be submitted to the Owner, Architect and Structural Engineer upon request. Weld inspection shall be done weld inspectors currently certified by the American Welding Society only..

c. Soil Material and Soil Compaction
   1. The Testing Agency will prepare one optimum moisture-maximum density curve for each type of soil encountered in subgrades under paved areas or areas to be determined in accordance with ASTM 1557 for all materials with a plasticity index of less than 20 and ASTM D698 for clay soil with a plasticity index of 20 or more.

   2. Each type of borrow material will receive, as applicable:
      a. Mechanical Analysis
      b. Moisture-density curve determination
      c. Plasticity index determination

   3. Compacted fill, subgrades under compacted fill or paved areas and backfill at all utility trenches (includes those by utilities companies) shall be tested as follows:
      a. The top 12 inches of subgrade resulting from excavation shall have the maximum density at optimum moisture specified under Section 02200 Earthwork. Make at least one field density test of the subgrade for every 5000 square feet of area, but in no case less than three tests.
      b. In each compacted fill layer, make one field density test for every overlaying 5000 square feet of area, but in no case less than three tests. Perform field density tests in accordance with ASTM D1556, ASTM D2167, or ASTM D2922.
      c. The relative density of a cohesionless, free-draining soil, expressed as a percentage, is defined as its state of compactness with respect to the most loose and most compact states at which it can be placed by laboratory procedures. The relative density will be based on the following formula, wherein the maximum density is the highest dry unit weight of the soil, minimum density is lowest dry unit weight of the soil, and in-place density is the dry unit weight of the soil in place:

$$\text{Relative Density (\%)} = \frac{\text{Max. Den. x (in-place den. - min. den.) x 100}}{\text{in-place den. x (max. den. - min. den.)}}$$

d. Concrete Work:
   1. Concrete inspection and testing will be made in accordance with building code requirements, and Contract Documents, and will include the following:
      a. Testing concrete for strength, slump, air content, temperature, and unit weight.
      b. Making and testing concrete cylinders, including furnishing cylinder containers for specimens.
      c. Transporting and storing of all specimens involved in testing and inspection. Test cylinders are to be transported to laboratory not later than 24 hours after casting, nor earlier than 16 hours after casting.
      d. Inspection of mixing and placing of concrete at the site, including recording of: amount and location of concrete placement, truck number and amount of water added to each load of concrete tested, time of transit, time mixed on job, time placement was completed, method of placing concrete, and any other pertinent information.

   2. Test Specimens:
      a. The Testing Laboratory will take specimens of each class of concrete from different locations on the job as follows: At least one set of four cylinders for each 50 cubic yards or fraction thereof of all other concrete, but not less than one set for any one day's operations. Every concrete truckload shall be checked for proper slump.
      b. For concrete placed by pumping, test specimens and concrete used for determination of slump, air content, and weight are to be taken at the point of placement of concrete into the forms.
      c. For concrete placed in sidewalks, curb and gutter, test specimens and concrete used for determination of slump, air content, and weight are to be taken at the point of placement of concrete into the forms Take at least one set of four cylinders for each 100 linear feet or fraction thereof.
      d. Samples will be obtained in accordance with ASTM C172.
      e. Making, curing and subsequent handling of test cylinders, except as modified herein, shall be in accordance with ASTM C31. Testing shall be in accordance with ASTM C39.
      f. The cylinders shall be placed in laboratory storage under moist curing conditions at approximately 70 degrees F. within 24 hours after molding, and maintained therein until tested. Tests will be as follows:
         1) One cylinder shall be tested at 7 days for information.
         2) Two cylinders shall be tested at 28 days for acceptance. The acceptance test results shall be the average strength of these two cylinders.
         3) One cylinder shall be tested at 45 days for information.

   3. Test Reports: Reports of cylinder tests shall be submitted as specified herein within five days of laboratory testing. Test reports shall, as a minimum, include:
      a. Project data including project name and address, concrete supplier, supplier's delivery ticket number and mix identification number, Testing Agency's test or cylinder identification number, and location of pour.
      b. Results of field testing at time of sampling including date and time of sampling, amount of water added at site prior to sampling, ambient air temperature and concrete temperature, concrete slump and air content, concrete wet unit weight, time batched, and time placed.
      c. Results of laboratory testing including date test specimens were transported to laboratory, date and age of concrete at time of testing, compressive strength of each cylinder tested, average compressive strength of tested cylinders, and specified design strength of concrete represented by the test.

   4. Additional Testing: Contractor shall bear the cost of testing and inspection resulting as a consequence of the following:
      a. Work not in compliance with the Contract Documents.
      b. Testing requested by the Contractor or Subcontractor such as additional cylinders for early breaks, etc.
      c. Testing to verify the adequacy of work done without prior notice, without proper supervision, or contrary to standard construction practice.

   5. Reinforcing Steel Inspection: Concrete reinforcing shall be inspected prior to closing of concrete formwork or placing of concrete. Inspect all reinforcing for conformance with contract requirements. Submit written reports of all inspections as specified herein on a weekly basis. Such reports shall include a description of each area inspected, deficiencies noted, and corrective action undertaken to resolve such deficiencies. Deficiencies observed shall immediately be brought to the attention of the Contractor's Field Superintendent. In the event deficiencies are not corrected, or if an interpretation of the contract documents is required, the Structural Engineer shall be immediately notified.

f. Structural Steel and Metal Fabrications:
   1. The Testing Agency shall be responsible to inspect all field connections as specified herein. The Testing Agency may also conduct inspections at the fabricator's facility during steel fabrication.
   2. For steel fabrication done in non-domestic (non-U.S.) fabrication facilities, inspections at the fabrication facility deemed necessary by the Testing Agency to verify compliance with AISC, AWS, and project specifications, shall be done at the expense of the General Contractor.
   3. The Testing Agency's inspector will perform his duties in such a way that neither fabrication nor erection is unnecessarily delayed or impeded. In no case will the inspector recommend or prescribe the method of repair of a defect.
   4. Shop and/or field inspection by the Testing Agency of fabricated and/or erected steel will be such as to assure that the work conforms to specified requirements and will include:
      a. Inspection of welding as required herein.
      b. Ascertainment of proper fit and alignment.
      c. Ascertainment of proper installation and tensioning of bolts.
      d. Ascertainment that Contractor's erection procedures adequately correct for distortion and shrinkage in field welded assemblies and connections.
   5. Welding and Materials:
      a. Inspection of welding by the Testing Agency will be such as to assure that the work conforms to specified requirements, and will include:
         1) Ascertainment that electrodes used for manual shielded metal-arc welding and the electrodes and flux used for submerged arc welding conform to the requirements of Section 05120.
         2) Ascertainment that the approved welding procedure and the approved welding sequence is followed without deviation, unless specific approval for change is obtained from the Structural Engineer.
         3) Ascertainment that the welding is performed only by welding operators and welders who are properly certified. The Testing Agency shall witness such qualification testing of welding operators and welders, as may be required.
         4) Ascertainment that the fit-up, joint preparation, size, contour, extent of reinforcement, and length and location of welds conform to specified requirements and the contract drawings, and that no specified welds are omitted or unspecified welds added without approval of the Structural Engineer.

      b. The Testing Agency shall test field welds as follows:
         1) All welds, including wall and shoring connections: 100% visual.
         2) All full or partial penetration groove welded connections: 100% ultrasonic.
         3) All other welds: 10% magnetic particle.

      c. Additional testing will be required of:
         1) If more than 10 percent of the tested welds are rejected, then an additional 10 percent of all such welds shall be tested using the same method. This 10 percent additional testing process shall be repeated until the rejection rate drops below one in 10.
         2) All cost of additional inspection required by this paragraph shall be borne by the Contractor.

      d. In addition, if defective welds are discovered, the remaining uninspected welds shall receive such ultrasonic or magnetic particle inspection as may be required by the Structural Engineer.
      e. The welding inspector will have the authority to reject weldments. Such rejection may be based on visual inspection where in his opinion the weldment would not pass a more detailed investigation.
      f. Reports by the Testing Agency's inspector will contain, as a minimum, an adequate description of each weld tested, the identifying mark of the welder responsible for the weld, a critique of any defects noted by visual inspection or testing, and a statement regarding the acceptability of the weld tested, as judged by current A.W.S. standards. Reports shall be distributed as early as possible but not later than one workweek after the tests have been performed. The Structural Engineer shall be notified by phone if, in the judgment of the inspector, test results require immediate comment.
      g. Radiographic testing may be substituted for ultrasonic.

   6. Bolted Connections: Visually inspect all bolted connections to ascertain that all bolts, nuts, and required washers have been installed and are of proper type and that all faying surfaces have been brought into snug contact.

   7. Tensioned High Strength Bolts:
      a. Standard Bolts:
         1) Inspect the bolt tightness of 10% of the bolts (minimum of 2), selected at random in each high strength bolted connection of structural steel framing on the project. If rejectable bolts are found in any connection, all the remaining bolts in that connection shall be inspected for tightness.
         2) Inspection procedure shall be in accordance with "Specification for Structural Joints Using ASTM A325 or A490 Bolts" approved by Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation (Research Council on Structural Connections).
      b. Tension Control (Self-Indicating) Bolts:
         1) Inspect tightness of 10% (minimum of 2) of the bolts, selected at random in each high strength bolted connection on the structural steel framing on the project in accordance with the procedure specified for standard bolts, first paragraph.
         2) Perform a visual inspection of all remaining high strength bolted connections to assure that all torque-off splines have been sheared.
         3) When splines are not sheared, the Testing Agency shall determine that proper bolt tension has been achieved by the application of a properly calibrated testing torque or the Contractor may, at his option, remove and replace all bolts with unsheared splines. All cost of additional inspection required by this paragraph shall be born by the Contractor.

g. Metal Deck:
   1. The Testing Agency will visually inspect all metal deck to observe that material is in acceptable condition and has been properly installed.
   2. The Testing Agency shall visually inspect all deck welds prior to being covered by other work.

h. Drilled-In Inserts:

Self-Expanding Inserts: The Testing Agency shall inspect self-expanding, drilled-in inserts shown on the structural drawings as follows:
   1. Prior to installation, the Testing Agency shall determine that the installing contractor has the proper materials and equipment for drilling holes in the receiving surface of required diameter and length.
   2. All inserts shall be visually inspected after installation to ensure that they have been installed perpendicular to the receiving surface and to proper depth.

i. Wood Framing:
   1. Observe placement of framing hardware. Verify hardware is installed per manufacturer's requirements/directions.

j. Grading, excavation and filling. During earthwork excavations, grading and filling operations inspections.

DIVISION 2 - SITE CONSTRUCTION

SECTION 02100 - SITE CLEARING

1. Remove improvements or obstructions interfering with installation of new construction. Remove such items elsewhere on site or premises as specifically indicated. Removal includes digging out stumps and roots.

2. Topsoil: Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4". Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 2" in diameter, and without weeds, roots, and other objectionable material.

3. Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material. Stockpile topsoil for reuse in landscape and green areas; excess shall be removed from site.

4. Remove heavy growths of grass from areas before stripping.

5. Stockpile topsoil in storage piles in areas shown, or where directed. Construct storage piles to freely drain surface water. Cover storage piles if required to prevent wind-blown dust. Stockpile sufficient quantity for 12" minimum depth in landscaped areas.

6. Clearing and Grubbing: Clear site of trees, shrubs and other vegetation, except for those indicated to be left standing.

7. Completely remove stumps, roots, and other debris protruding through ground surface.

8. Removal of Improvements: Remove above-grade and below-grade improvements necessary to permit construction and other work as indicated.

9. Abandonment or removal of certain underground pipe or conduits may be shown on mechanical or electrical drawings, and is included under work of those sections. Removal of abandoned underground piping or conduit interfering with construction is included under this section.

10. Provide protection to improvements to remain.

SECTION 02200 – EXCAVATION, BACKFILLING, COMPACTION, AND GRADING

The following are general guidelines for excavation, backfilling, compaction and grading. The contractor shall follow the specific recommendations made in the soils report and/or construction documents. When not specifically addressed in the construction documents, contractor shall comply with the provisions herein.

1. Excavate for footings; foundations structures, utilities, etc. to indicated depth. All excavation shall be assumed as earth.

   a. Trim bottoms to leave solid, undisturbed base for concrete placement. See Soils Report for bearing capacity.

   b. All foundation excavation shall be kept dry, and protected from freezing.

   c. Correct unauthorized excavation in a manner acceptable to Owner.

2. Excess earth not required for backfill shall be removed from site. General Contractor responsible for topsoil placement and raking to grade.

3. Compact backfill to density of adjacent soil, as follows, whichever is greater: (Refer to Soils Report for other recommendations).

   a. Compact soil to not less than the following percentages of maximum density for soils, which exhibit a well-defined moisture density relationship (cohesive soils) determined in accordance with ASTM D1557: and not less than the following percentages of relative density, determined in accordance with ASTM D2049, for soils which will not exhibit a well-defined moisture-density relationship (cohesionless soils).

   b. Under Buildings and Paved Areas: Compact top 8 inches of existing surface and each layer of backfill of fill material to 95 percent maximum density (Standard Proctor) for cohesive soil or 98 percent relative density (Standard Proctor) for cohesionless soils.

   c. Other Areas: Compact 8 inches of existing ground surface and each layer of backfill of fill material to 90 percent maximum density (Standard Proctor) for cohesive soils or 85 percent relative density (Standard Proctor) for cohesionless soils.

   d. Where soil materials must be moisture conditioned before compaction, uniformly apply water to surface, Prevent free water from appearing on surface of soil materials during or subsequent to compaction operation.

   e. Remove and replace, or scarify and air dry soil material that is too wet to permit compaction to specified density.

4. Backfill and fill materials

   a. Sand or sand on gravel at engineered (clean) earth fill shall be used under floor slabs on-grade, to underside of crushed stone underlayment.

   b. Earth materials taken from the excavation operations and stockpiled on site as acceptable fill material, capable of meeting the specified compaction requirements, shall (be used as fill material in areas outside the building.
      1). Only 1-inch washed gravel, pea gravel or sand shall be used in utility trenches in paved areas, to top of subgrade.

   c. Existing paving, organic material or existing soils shall not be used for filling under building slabs or for filling under pavement.

   d. Granular fill under slabs on grade shall be No. 57, 6, or 67 crushed stone per ASTM D448.

   e. Remove rock or gravel larger than 2 inches in any dimension, debris, waste, obstructions, and deleterious matter from ground surface prior to placement of fills.

5. Grade site to establish required elevations. Maintain proper drainage ways to direct water away from building in final grading.

   a. Storm drainage shall be provided as indicated on site plan(s) and installed in accordance with state and local codes and ordinances.

6. Grade areas to smooth finished surfaces free from irregular surface changes. Compact with uniform levels or slopes between points and existing perimeter grades

SECTION 02281 TERMITE CONTROL

1. Provide soil treatment within 5'-0" beyond new building limits by licensed pest control company, to comply with local jurisdiction.
   a. Provide certificate of application to Owner.

2. Use an emulisible concentrate termicide for dilution with water, specially formulated to prevent infestation by termites. Fuel oil will not be permitted as a dilutant. Provide a solution consisting of one of the following chemical elements and concentrations.

   a. Chlorpyfifos (Dursban TC); 1.0 percent water emulsion.
   b. Permathrin ("Dragnet", "Torpedo"); 0.5 percent in water emulsion.

3. Other solutions may be used as recommended by Applicator if also acceptable to the Owner and approved for intended application by jurisdictional authorities. Use only soil treatment solutions that are not injurious to planting.

4. Apply toxicant 12 hours prior to installation of vapor barrier under slab on grade or finish grade outside foundation walls.

5. Apply toxicant using metered applicator, per manufacturer's instructions, but not less than the amounts as follows:

   a. Under floor slab on grade: One to one and a half gallons per 10 sq. ft.
   b. Both sides of foundation walls: One gallon per 2.5 cubic feet to top of footing.
   c. Soil within 5 feet of building perimeter: One gallon per 2.5 cu. ft.

6. Apply extra treatment to structure penetrations, pipe, ducts, and other soil penetrations.

7. Coordinate soil treatment at foundation perimeter with finish grading to prevent disturbance of treated soil. Re-treat disturbed treated soil.

SECTION 02500 - CONCRETE PAVING

1. Provide materials and methods conforming to State Highway Department Standards.

2. Furnish and install aggregate base, Portland cement concrete paving, including curbs, gutters and flatwork at Grade surfaces as indicated on the Drawings.

3. Materials:
   a. Refer to Section 03300 for additional concrete material requirements.

   b. Aggregate base: Class 2, 3/4" maximum aggregate size, in conformance with CSS, Section 26.

   c. Forms: Use steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal.
      1. Use straight forms, free of distortion and defects.
      2. Use flexible spring steel forms, or laminated boards to form radius bends as required.
      3. Coat forms with a non-staining form release agent that will not discolor or deface surface of concrete.

   d. Portland Cement: Type II, ASTM C150 unless noted otherwise in the Geotechnical Report.

   e. Aggregate: ASTM C33, 3/4" maximum size.

   f. Expansion Joint Filler: Pre-molded joint filler of non extruded and resilient, non-bituminous type conforming to ASHTO-M135.

   g. Liquid Membrane Forming Curing Compound: Comply with ASTM C309, Type I, Class A, wax free. "Spartan-Cote" manufactured by The Burke Company.

   h. Bonding Compound: Polyvinyl acetate or acrylic base, re-wettable type.

   i. Epoxy Adhesive: ASTM C881, two-component material suitable for use on dry or damp surfaces. Provide material type, grade, and class to suit Project conditions.

   j. Joint Sealer: Conforming to the approved color admixture manufacturer specification. "Lithochrome Colorcaulk" manufactured by L.M. Schofield Company or equal.

   k. Seal coat: Sealtight: Vocomp-25 by W.R. Meadows, Inc.

4. Design mix to produce normal-weight concrete consisting of Portland cement, aggregate, and admixtures and water.

5. Comply with the Local Regulatory Agency for City of Lander requirements for all work within the Public Right of Way. All flat work within the Public Right Away and on site shall conform to ADA Standards and specific details of Local Regulatory Agency.

6. Curbs and Gutters
   a. Automatic machine may be used for curb and gutter placement at Contractor's option.
      1. If machine placement is to be used, submit revised mix design and laboratory test results which meet or exceed minimums specified.
      2. Machine placement must produce curbs and gutters to required cross-section, lines, grades, finish, and jointing as specified for formed concrete.
      3. If results are not acceptable, remove and replace with formed concrete as specified.

   b. All vertical curb and curb and gutter shall conform to the lines and grade shown on the Drawings.

   c. Minimum of 4 inches of aggregate base shall be placed under all concrete curb.

7. Joints:
   a. Expansion, weakened-plane (contraction), and construction joints for curb and gutter shall be constructed true-to-line with face perpendicular to surface of concrete.
      1. Construct transverse joints at right angles to the centerline, unless otherwise indicated.
      2. When joining existing structures, place transverse joints to align with previously placed joints, unless otherwise indicated.

   b. Expansion, weakened-plane (contraction), and construction joints for flatwork shall be constructed true-to-line and aligned as specified in this Section.

   c. Weakened Plane/Contraction Joints:
      1. Provide weakened-plane/contraction joints at 10'-0" for curb and gutter.
      2. Provide weakened-plane/contraction joints at 4'-0" for concrete flatwork, unless otherwise shown.
      3. Construct weakened-plane joints for a depth equal to at least 1/4 concrete thickness, as follows:
         aa. Tooled Joints: Form weakened-plane joints in fresh concrete by grooving top portion with a recommended tool and finishing edges with a 2 - inch halo tool

   d. Construction Joints: Place construction joints at end of placements and at locations where placement operations are stopped for a period of more than 1/2 hours, except where such placements terminate at expansion joints.
      1. Construct joints as indicated on the Drawings, or if not indicated, use standard metal keyway section forms.

   e. Expansion Joints: Provide pre-molded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks and other fixed objects, unless otherwise indicated.
      1. Provide expansion joints at 20'-0" for curb and gutter.
      2. Provide expansion joints at 20'-0" on center for flatwork, unless otherwise indicated. Final location shall be approved by the Architect.
      3. Extend joint fillers full-width and depth of joint, and not less than 1/2 inch or more than 1 inch below finished surface where joint sealer is indicated. If no joint sealer, place top of joint filler flush with finished concrete surface.
      4. Furnish joint fillers in one-piece lengths for full width being placed, wherever possible. Where more than one length is required, lace or clip joint filler sections together.
      5. Protect top edge of joint filler during concrete placement with a metal cap or other temporary material. Remove protection after concrete has been placed on both sides of joint.

   f. Joint Sealer: Provide joint sealer for expansion joints. Place sealant full length of joint and to 1/4" below finish surface of concrete.

8. Finishing exterior slabs: Finish slabs to true planes and provide light broom finish as acceptable to Owner. All exterior exposed concrete shall receive an anti-spall treatment of 50%(by volume) boiled linseed oil and 50% (by volume) mineral spirits, per AASHTO M233. First application: 40 sq. yds. per gallon and allow to completely dry. Second application: 60 sq. yds. per gallon and allow to completely dry.

   a. Vertical surfaces shall be rubbed with medium coarse carborundum stone and water to provide a smooth texture of uniform color, form mark free.

   b. All concrete surfaces shall be stripped and rubbed same day.

9. Tolerance: Finished slabs shall be level with tolerance of 1/8" in ten feet, when tested with ten foot straight edge placed on the surface at not leas than two different angles. Uniformly slope surface to area drain.

SECTION 02510 - ASPHALTIC CONCRETE PAVING

1. Provide materials and methods conforming to State Highway Department Standards.

2. Use only materials that are furnished by a bulk asphaltic concrete producer regularly engaged in production of hot-mix, hot-laid asphaltic concrete, complying with ASTM D3515.

3. The paving contractor shall provide a written guarantee for a period of eighteen (18) months from date of substantial completion, that all labor and material furnished and all work performed are in accordance to the contract documents, and any imperfect workmanship and/or materials will be replaced and/or repaired at no additional cost to the Owner.

4. Any work noted on the drawings or specified herein to encroach on right-of-way shall conform to the regulations of the agency having jurisdiction.

5. The subgrade in areas to be paved shall be true to line and grade, free from all loose rock, foreign materials, and shall have a dry and properly prepared surface, compacted with a mechanical tamper or proof roll with heavy pneumatic-tired equipment immediately prior to placing the dense graded aggregate bass course. Any soft or unstable zones detected thereby should be undercut to firm soil and backfilled with engineered earth fill, compacted as specified. The subgrade for all pavements shall be uniformly stable before any dense graded aggregate base is installed.

6. Pavement make-up, unless otherwise noted on site plan or recommended in soil report.

   a. Base course aggregate: 8" DGA, compacted thickness.

   b. Binder course: 2" compacted thickness.

   c. Surface course: 1" compacted thickness. Provide a dense graded mix to produce a tight, non-porous finished surface.

7. The base course shall consist of dense graded aggregate, plant mix; placed and compacted in accordance with the local Highway Department Standard Specifications.

   a. Compact aggregate base course materials to not less than 95 percent of maximum density, ASTM D1557, Method D.

8. Asphalt Materials:
   a. Asphalt Cement: ASTM D 3381 for viscosity-graded material; ASTM D 946 for penetration-graded material.

   b. Asphalt Cement: ASTM D 3381 for viscosity-graded material.

   c. Undersealing Asphalt: ASTM D 3141, pumping consistency.

   d. Prime Coat: Asphalt emulsion prime conforming to state DOT requirements.

   e. Prime Coat: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.

   f. Tack Coat: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.

   g. Fog Seal: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.

   h. Water: Potable.

9. Aggregate Materials:
   a. General: Use materials and gradations that have performed satisfactorily in previous installations for this type of application.

   b. Coarse Aggregate: Sound; angular crushed stone; crushed gravel; or properly cured, crushed blast-furnace slag; complying with ASTM D 692.

   c. Fine Aggregate: Sharp-edged natural sand or sand prepared from stone, gravel, properly cured blast-furnace slag, or combinations thereof, complying with ASTM D 1073.
      1. For hot-mix asphalt, limit natural sand to a maximum of 10 percent by weight of the total aggregate mass.

   d. Mineral Filler: Rock or slag dust, hydraulic cement, or other inert material complying with ASTM D 242.

10. Apply prime coat over dry aggregate base course at a rate of 0.20 to 0.50 gal. per sq. yd. prior to placement of asphaltic concrete paving.

11. Place asphaltic concrete paving immediately after prime coat has cured and dried.

   a. Place asphaltic concrete on prepared aggregate base course and compact to establish required density, thickness and elevations.

   b. Spread and strike-off asphaltic concrete mixture using self-propelled paving machine except that inaccessible and small areas may be placed by hand. Spread a mixture at a minimum temperature of 225 degrees F.

   c. Place paving in strips not less than 10 feet wide, unless otherwise indicated.

   d. Ensure that joints made during asphaltic concrete paving operations are straight, vertical, tightly bonded, free of broken or loose material, and have same texture, density and smoothness as adjacent paving.

   e. Compact each asphaltic concrete paving course with self-propelled rolling equipment. Start compaction as soon as paving will bear equipment without checking or undue displacement.

   f. Carry out compaction in three operations (breakdown or initial rolling, second rolling and finish rolling) in pass sequence to produce smooth surfaces of uniform texture, free from depressions ("bird baths") and roller marks.

   g. Compact with hand tampers in areas not accessible to rolling equipment.

11. Compact asphaltic concrete paving to 100 percent of the laboratory compacted density determined in accordance with ASTM D1188.

12. Do not allow vehicular traffic on newly paved areas until surface has cooled to atmospheric temperature.

13. Patching and Repairs:
   a. Patching: Saw cut perimeter of patch and excavate existing pavement section to sound base. Recompact new subgrade. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically.
      1. Tack coat vertical faces of excavation and allow to cure before paving.
      2. Fill excavation with dense-graded, hot-mix asphalt base mix and, while still hot, compact flush with adjacent surface. See PWGB 97 for minimum and maximum lifts and/or sections.
      3. Partially fill excavation with dense-graded, hot-mix asphalt base mix and compact while still hot. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.

   b. Portland Cement Concrete Pavement: Break cracked slabs and roll as required to reseat concrete pieces firmly.
      1. Pump hot undersealing asphalt under rocking slabs until slab is stabilized or, if necessary, crack slab into pieces and roll to reseat pieces firmly.
      2. Remove disintegrated or badly broken pavement. Prepare and patch with hot-mix asphalt.

   c. Leveling Course: Install and compact leveling course consisting of dense-graded, hot-mix asphalt surface course to level sags and fill depressions deeper than 1 inch (25 mm) in existing pavements.
      1. Install leveling wedges in compacted lifts not exceeding 3 inches (75 mm) thick.

   d. Crack and Joint Filling: Remove existing filler material from cracks or joints to a depth of 1/4 inch (6 mm). Refill with asphalt joint-filling material to restore watertight condition. Remove excess filler that has accumulated near cracks or joints.

   e. Tack Coat: Apply uniformly to existing surfaces of previously constructed asphalt or portland cement concrete paving and to surfaces abutting or projecting into new, hot-mix asphalt pavement. Apply at a uniform rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m) of surface.
      1. Allow tack coat to cure undisturbed before paving.
      2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

SECTION 02575 - PAVEMENT SEAL COAT

1. If noted on the construction documents, existing pavements, to remain shall receive a sand/slurry seal per local state highway specifications.

   a. Slurry seal shall consist of emulsified asphalt (SS1H or CSS-1H), fine aggregate, Portland cement and water, applied at 16 pounds per square yard (base on dry aggregate weight) but no less than 1/16" thickness.

SECTION 02580 - PAVEMENT MARKING

1. Marking paint shall conform to AASHTO M248 (chlorinated rubber-alkyd), Type III. Apply as 4" wide stripes (or symbols as indicated) in one coat of 125 sq. ft. per gallon. Color shall be white. Accessible details shall comply with the latest provisions of the Americans with Disabilities Act.

2. Dust, clay, silt, and excess sand shall be removed by sweeping from pavement to be marked prior to application of paint.

3. Apply paint with mechanical equipment to produce pavement markings of dimensions indicated with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
   a. Broadcast glass spheres uniformly into wet pavement markings at a rate of 6 lb/gal. (0.72 kg/L).

SECTION 02890 – TRAFFIC SIGNS

1. Traffic sign company with proof of bidding/supplying signs for DOT Highway Standards and governing local jurisdiction.

2. Materials:
   a. Base metal substrate alloy: 6061-T6 or 5052-H38.
      1. 18" or less - 0.063.
      2. Over 18" through 30"- 0.080 inches thick.
      3. Over 30"- 0.100.

   b. Size: Minimum size 24"x24" for stop/street type signs.
      1. Handicapped signs to meet American Disabilities act for size, shape, logos and lettering.

   c. Finish: Scotchlite high intensity grade sheeting.

   d. Anti graffiti film: Scotchlite protective overlay film clear, colorless film.

   e. Lettering: Per plans and State DOT Highway standards.

3. Conform to the ADA Standards for the amount of handicapped stalls required or local requirements if greater.

DIVISION 3 - CONCRETE

SEE STRUCTURAL DRAWINGS FOR CONCRETE SPECIFICATION SECTIONS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ

ISSUE DATE:
04/07/10

ARCHITECTURAL SPECIFICATIONS

SP .1

DIVISION 4 - MASONRY

SECTION 04200 – CONCRETE UNIT MASONRY

1. Concrete Masonry Units:

   a. Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required.

   b. Concrete masonry units: Nominal face dimensions of 8 inch wide x 8 inch deep x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, lintels and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C90, Grade N, Type I.

   c. When concrete unit masonry units are removed from the manufacturers storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.

2. Mortar: ASTM C476, Type S, 1800 psi at 28 days.

   a. Portland Cement: ASTM C150, Type I.

   b. Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter.

   c. Hydrated Lime ASTM C207, Type S.

   d. Water: Clean and free from injurious amounts of oil, alkali, organic matter or other deleterious material.

   e. Use no admixtures unless written approval is obtained from Owner.

3. Grout: Masonry mortar; consistency which will completely fill all spaces intended to receive grout.

4. Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.

5.Horizontal reinforcement: Truss type ASTM A92 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross rods.

   a. Dur-O-Wal, AA Wire Products, Heckman, or equal.

6. Maintain materials and surrounding air temperature to minimum 50 degree F. prior to, during and 48 hours after completion of masonry work or until complete hydration of the mortar is achieved whichever is greater.

7. During freezing or near freezing weather provide adequate equipment or cover to maintain a minimum temperature of 50-degree F. and to protect masonry work completed or in progress.

8. Establish lines, levels, and coursing. Protect from disturbances.

9. Thoroughly mix mortar ingredients, in quantities needed far immediate use.

   a. If necessary, re-temper mortars to replace water lost by evaporation, but do not re-temper or use mortar after two (2) hours from the initial mixing time.

10. Place masonry true, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.

11. Full bond external and internal corners and intersections.

    a. Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.

12. Do not shift or tap masonry after mortar has taken initial set. Where adjustments must be made, remove mortar and replace.

13. Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall at openings, corner or offsets.

14. Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges.

15. Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar, properly jointed with other work.

16. Remove excess mortar and projections. Take care to prevent breaking masonry corners.

17. Lay all masonry units in running bond course 1 block unit and 1 mortar joint to equal 8 inches. Form concave mortar joints, where exposed; strike flush where concealed.

18. Provide temporary bracing during masonry erection Maintain in place until building structure provides permanent bracing,

19. Place masonry reinforcing and anchorages for concrete unit masonry as follows:

    a. Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.

    b. Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.

    c. Fully reinforce corners and intersections, using prefabricated corner and 'V' reinforcement sections.

    d. Lap masonry reinforcing splices minimum 6 inches.

    e. Place vertical reinforcing at indicated centers. Grout cores solid in 4'-0" maximum lifts.

20. As work progresses, build-in anchor bolts, and other items embedded in masonry.

21. Remove excess mortar and smears upon completion of masonry work.

    a. Clean soiled surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.

22. Clean and remove all mortar droppings from floor.

23. Cover tops of walls when work is not in progress.

DIVISION 5 - METALS

SECTION 05540 – ARCHITECTURAL METAL FABRICATIONS

1. Work includes miscellaneous shop fabricated ferrous metal items, including but not limited to:
   a. Loose steel lintels at masonry openings
   b. Pipe Bollards
   c. Steel Trash Enclosure Gates & Frames
   d. Trench Drain Covers
   e. Counter / Vanity Supports
   f. Miscellaneous framing, supports and trim.

2. Materials
   a. Steel Sections: ASTM A36.
   b. Steel Tubing: ASTM A500 or ASTM A501.
   c. Steel Pipe: ASTM A53, Grade B, standard weight (Schedule 40).
   d. Malleable Iron Castings; ASTM A47.
   e. Bolts, Nuts, and Washers. ASTM A307.
   f. Welding Materials: ASW D1.1; type required for materials being welded.
   g. Primer SSPC-Paint 2, for shop application and field touch-up.

3. Fabrication:
   a. Verify dimensions in field prior to shop fabrication.

   b. Fabricate items with joints tightly fitted and secured.

   c. Fit and shop assemble in largest practical sections, for delivery to site.

   d. Prime paint items schedule to provide a uniform dry film thickness of 2.0 mils.

   e. Ladders:
      1) Fabricate ladders for the locations shown, with dimensions; spacing, details and anchorage as indicated. Comply with the requirements of ANSI A 14.3, except as otherwise indicated.

         a) Unless otherwise shown, provide 1/2' x 2-1/2" continuous structural steel flat bar side rails with eased edges, spaced 24" apart.

         b) Provide 3/4" diameter solid structural steel bar range, spaced 12"o.c.

      2) Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.

      3) Support each ladder at top and bottom and at intermediate points, spaced not more than 5'-0" o.c. Use welded or bolted steel brackets, designed for adequate support and anchorage, and to hold ladder clear of the wall surface with a minimum of 7" clearance wall to centerline of rungs. Return rails to wall or structure unless other secure handholds are provided.

      4) Provide non-slip surface on top of each rung, either by coating the rung with aluminum oxide granules set in epoxy resin adhesive, or by using a type of manufactured rung which is filled with aluminum oxide grout.

4. PIPE BOLLARDS

   a. Fabricate pipe bollards from Schedule 80 steel pipe.

5. ROUGH HARDWARE
   a. Furnish bent, or otherwise custom-fabricated, bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 Sections.

   b. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts that bear on wood structural connections, and furnish steel washers elsewhere.

SECTION 05580 – SHEET METAL FABRICATIONS

1. This Section includes the following:
   a. Stainless Panels and trim.

2. Sheet Metal

   a. General: Provide sheet metal selected for surface flatness, smoothness, and freedom from surface blemishes where exposed to view in the finished unit. Do not use materials with pitting, seam marks, roller marks, variations in flatness exceeding those permitted by referenced standards for stretcher-leveled metal sheet, stains, discoloration, or other imperfections.

   b. Steel Sheet: Commercial-quality, cold-rolled, stretcher-leveled, carbon-steel sheet, complying with the following requirements:
      1. Uncoated Steel Sheet: ASTM A 366 (ASTM A 366M), Class I, matte finish.

   c. Stainless-Steel Sheet: ASTM A 167, Type 302 or 304, stretcher leveled, with the following mill finish:
      1. Polished for surfaces requiring little or no polishing after fabrication to produce the uniform polished finish specified under the "Stainless-Steel Finishes" Article.

3. Miscellaneous Materials
   a. Welding Electrodes and Filler Metal: Type and alloy of filler metal and electrodes as recommended by producer of metal to be welded, complying with applicable AWS specifications, and as required for strength and compatibility in the fabricated items.
      1. Use filler metals and welding procedures that will blend with and match the color of sheet metal being joined and will avoid discoloration at welds.

   b. Fasteners: Of same basic metal and alloy as fastened metal, unless otherwise indicated. Do not use metals that are corrosive or incompatible with metals joined.
      1. Provide concealed fasteners for interconnection of sheet metal fabrications and for attaching them to other work except where exposed fasteners are unavoidable or are the standard fastening method.
      2. Provide Phillips flat-head machine screws for exposed fasteners, unless otherwise indicated.
      3. Provide neoprene washers for all fasteners, unless otherwise indicated.

   c. Nonstructural Anchors: For applications not indicated to comply with design loadings, provide anchors of type, size, and material required for type of loading and installation indicated, as recommended by the manufacturer from options listed below, unless otherwise indicated. Use nonferrous metal or hot-dip galvanized anchors for exterior installations and elsewhere as required for corrosion resistance.
      1. Powder-actuated fasteners.
      2. Metal expansion sleeve anchors.

4. Steel Sheet Finishes

   a. Surface Preparation: Solvent-clean surfaces to comply with SSPC-SP 1 to remove dirt, oil, grease, and other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel to comply with SSPC-SP 5 (White Metal Blast Cleaning) or SSPC-SP 8 (Pickling).

   b. Pretreatment: Immediately following surface preparation, apply a conversion coating of type suited to organic coating applied over it.

   c. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately following surface preparation and pretreatment.
      3. Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements of FS TT-P-664 selected for good resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated, and capability to provide a sound foundation for field-applied topcoats despite prolonged exposure.

5. Stainless Steel Finishes

   a. Bright, Directional Polish: AISI No. 3 finish.

SEE STRUCTURAL DRAWINGS FOR REMAINING STEEL & METAL SPECIFICATION SECTIONS.

DIVISION 6 - WOOD & PLASTICS

SECTION 06100 - CARPENTRY

1. Framing Lumber: American Softwood Lumber Standards PS20, S4S, 19% maximum moisture content, with the following minimum working stresses.

   Bending (fb) = 1500 psi
   Horizontal Shear (fv) = 95 psi
   Compression Perpendicular to Grain (fc) = 390 psi
   Modulus of Elasticity (E) = 1,500,000

   a. Members in contact with concrete, masonry, or roof shall be preservative treated, AWPB LP-2.
   b. Fire retardant treated lumber: AWPA C20.

2. Plywood: PS1, factory marked with appropriate APA trademark. Wafer or particle board is not acceptable. Protect all plywood from moisture by use of all required waterproof covering until the plywood has in turn been covered with the next succeeding component of finish.

   a. Wall sheathing: APA rated sheathing, 32/16, 1/2" nominal, Exposure 1.

3. Building felt: ASTM D226, No. 15 asphalt saturated felt.

4. Building Wrap:
   a. At EIFS or Stucco: Tyvek "Stucco Wrap," by DuPont Company, Wilmington, Delaware.
   b. At all other locations: Tyvek "Commercial Wrap," by DuPont Company, Wilmington, Delaware.

5. Nails, Spikes, and Staples: Galvanized for exterior locations and treated wood; plain finish for other interior locutions; size and type to suit application.

6. Bolts, Nuts, Washers, Lags, Pins, and Screws: Medium carbon steel, sized to suit application, galvanized for exterior locations and treated wood, plain finish for other interior locations.

7. Fasteners: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolts or power activated type for anchorage to steel.

8. Erect wood framing, furring, stripping, plywood backing and nailing members true to lines and levels. Do not deviate from true alignment more than 1/4 inch.

9. Comply with NFPA National Design Specification for Wood Construction recommendations for sizes and openings of members, nailing schedule, and for framing openings if sizes, spaces, or opening framing are not indicated.

10. Provide blocking for support of wall mounted cabinetwork, hardware, toilet partitions, urinal screens, toilet accessories, and plumbing fixtures unless other means of support is indicated.

11. Do not splice structural members between supports.

DIVISION 6 - WOOD & PLASTICS (CONT.)

SECTION 06200 – FINISH CARPENTRY

1. Softwood Lumber: Graded in accordance with the requirements of AWI Quality Standards; maximum moisture content of 6 percent for interior work and 10 percent for exterior work.

2. Softwood Plywood: Graded in accordance with AWI Quality Standards; exterior material of Birch Veneer, paint grade veneer, or plastic laminate as indicated.

3. Plastic Laminate: NEMA LD-3; GP-50 for horizontal and vertical surfaces over marine plywood CL-20 for backing and unexposed surfaces.

4. Nails: Size and type to suit application.

5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Size and type to suit application.

6. Interior Wood Trim:

   a. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.

   b. Interior Wood Trim:
      1. General Use (Paint): Contractor's option: "C" Select Grade Southern Yellow Pine (Douglas Fir Alternate)
      2. Natural Finish (Stain): Select Grade, quarter sliced Red Oak, AWI, Grade 1.

      c. Interior Finish Plywood: 3/4 inch paint grade, lumber core, oak plywood

   d. Frames: Same as for interior wood trim.

   e. Shelving: 3/4 inch AB Grade Oak plywood with exposed edges edgebanded.

   f. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.

   g. Screws: FS FF-S-11 lb.

   h. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.

   i. Toggle Bolts: FS FF-B-588b.

7. Exterior Wood Trim:

   a. Solid wood: For opaque or satin finish, "C" select grade yellow or white pine, location as indicated on plan.

   b. Plywood: Smooth finish cedar plywood.

   c. Exterior Wood Trim: Contractor's option: Redwood S4S #1, Cedar S4S #1, "C" Select Grade Yellow Pine or Fir.

8. Fabricate finish carpentry and cabinetwork items in accordance with AWI Quality Standards 'Custom Grade', and Section 400 of the AWI Guide. Shop fabricate items where possible.

9. Apply plastic laminate finish in full-uninterrupted sheets consistent with manufactured sizes. Corners and joints to be hairline.

10. Cap exposed plastic laminate edges with material of same finish and pattern.

11. Use exposed fastening devices or nails only when unavoidable.

12. Sand work smooth and set exposed nails and screws. Eliminate hammer marks and other defects. Apply wood filler in exposed nail and screw indentations and leave ready to receive site applied finishes.

13. Set and secure finish carpentry and cabinetwork items in place, rigid, plumb, and square.

14. Install and adjust cabinet hardware to correct operation.

15. Finish woodwork shall be set straight, plumb or level, closely fitted and rigidly fastened. Nail heads of exposed work shall be set for putty and other fasteners shall be concealed.

16. Joints shall be tight and formed to conceal shrinkage. All trim shall be mitered; no butt joints permitted interior corners shall be coped.

17. Install doors plumb, true and fitted properly. Leave in perfect working order. Warped doors will be rejected and shall be replaced. Neatly mortise, drill, and anchor all hardware.

18. Conceal fasteners wherever possible. Where not possible, locate them in an inconspicuous place. Where nails or screw attachment occurs in woodwork face, countersink, putty and sand smooth.

SECTION 06255 – FIBERGLASS REINFORCED PANELS

1. FRP panel: 48" wide, 3/32" thickness, white unless noted otherwise.
   Approved Manufacturers:
   a. Kemlite
   b. Marlite

2. FRP Accessories
   a. All moldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.

3. Sealant
   a. One part Silicone Rubber, ASTM C920 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.
   b. Color: Clear to translucent

4. Install panels over water resistant drywall in strict accordance with manufacturers recommendations, using non-flammable adhesive (100% coverage).

   a. Drywall must be installed (and all joints taped) floor to ceiling to provide a good bondable surface to accept installation of FRP panels.

5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate, work with minimum of joints or optimum jointing arrangements, or which are of defective manufacture with respect to surfaces, sizes, or patterns.

6. Scribe and cut panels to fit adjoining work.

   a. Caulk all joints and all mouldings with silicone sealant.

   b. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.

   c. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8"' in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

DIVISION 7 - THERMAL PROTECTION & WATERPROOFING

SECTION 07210 - BUILDING INSULATON

1. Batt Insulation: Pre-formed glass fiber batt: blankets with foil face membrane covering; per ASTM C665, Type III; densities of not less than 0.5 lb. per cu. ft. for glass fiber units, K-value of 0.27; flame spread of 25 or less, ASTM E84 (Class A), 6" (R-19) unless otherwise noted.

   a. Certainteed Corp.
   b. Schuller International
   c. Owens-Corning Fiberglass Corp.
   d. United States Gypsum Co.
   e. Knauf Fiberglass

2. Perimeter Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C578 for type indicated; with 5-year aged R-values of 5.4 and 5 at 40 and 75 deg. F (4.4 and 23.9 deg, C.) respectively, 1" thickness unless otherwise noted.

   a. Dow Chemical Co., - Styrofoam SM
   b. Owens-Corning – Foamular 250
   c. Diversifoam Products - Certifoam SE
   d. Amoco Foam Products - Amofoam CM

3. Sound attenuation insulation: USG "SAFB", 2.5 pound/cu. ft., density, no substitution.

4. Installation accessories and adhesives shall be as recommended by insulation manufacturer for type of application and condition of substrate.

5. Install batt insulation in accordance with manufacturer's instructions.

   a. Place batt insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.

   b. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation.

   c. Install insulation with factory applied membrane facing warm side of building spaces.

6. Secure rigid insulation to substrate surfaces. Stagger joints 6" where multi-layered. Cut and shape to sub state conditions.

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS

1. Section Includes Insulation and applied finish, reinforcing and coating Adhesives

2. References

   A. ASTM C578 preformed cellular polystyrene thermal insulation.

   B. UL723 - test for surface burning characteristics of building materials.

3. Conform to applicable code of system fire resistance and flame/smoke ratings for finish system.

4. Finish Materials

   A. Insulation: Extruded polystyrene insulation board shall meet ASTM C578, Type VI, and Federal Specifications #HH-1-524-B, Type 1, Class A, with a flame spread of less than 25 according to Underwriters Laboratory Test Method UL-723. Polystyrene board shall have a density of 1.0 lbs. Per cu. Ft. and a K value equal to 0.23 per inch. Thickness shall be as shown on drawings. In addition, all insulation board shall be aged (air dried) for a period of six weeks before use. Insulation board shall be square to within 1/32" per ft., with a thickness tolerance of +1/16

   B. Mechanical Fasteners: As recommended by manufacturer, provide wind plates used in conjunction with corrosion resistant fasteners appropriate to bond EPS foam board to substrate system.

   C. Portland Cement: ASTM C-150, Type 1

   D. Reinforcing Fabric: Manufacturer's standard, balanced open weave glass fiber fabric made from twisted multi-end strands, specifically treated for compatibility with finish materials.

   E. High Impact Reinforcing: Manufacturer's standard, heavy duty glass fiber reinforcing mesh.

   F. Finish: 100 percent, acrylic based coating, integral color and texture as indicated on the drawings.

5. FINISH APPLICATION:

   A. Install all materials in complete accord with system manufacturer's printed specifications and/or recommendations.

   B. Insulation: Apply insulating board to backing surface with mechanical fasteners in a running bond pattern. Insulation shall be applied in largest pieces possible, run horizontally, with mechanical fasteners spaced per manufacturer's design standards.

   C. High Impact Reinforcing Fabric: Embed high impact reinforcing fabric in a 1/8 inch bed coat of adhesive fully, so mesh pattern is concealed. Apply high impact fabric throughout work to all areas below 8'-0".

   D. Reinforcing Fabric: Wait a minimum of 24 hours after completing high impact fabric, then embed reinforcing fabric in a bedding coat of adhesive applied to all insulation board and over previously installed high impact reinforcing areas. Apply adhesive thick enough to ensure no fabric is exposed.

   E. Finish Coating: Apply the finish coating over reinforcing fabric. Finish shall be troweled tight and floated to approved.

SECTION 07540 - THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

1. Performance Requirements
   a. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.

   b. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.

   c. FMG Listing: Provide roofing membrane, base flashings, and component materials that comply with requirements in FMG 4450 and FMG 4470 as part of a membrane roofing system and that are listed in FMG's "Approval Guide" for Class 1 or noncombustible construction, as applicable. Identify materials with FMG markings.
      1. Fire/Windstorm Classification: Class 1A- 90.
      2. Hail Resistance: SH.

2. Submittals
   a. Product Data: For each type of product indicated.

   b. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.
      1. Base flashings and membrane terminations.
      2. Tapered insulation, including slopes.
      3. Insulation fastening patterns.

   c. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
      1. Submit evidence of meeting performance requirements.

   d. Maintenance Data: For roofing system to include in maintenance manuals.

   e. Warranties: Special warranties specified in this Section.

   f. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

3. Warranty
   a. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
      1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories roof insulation fasteners cover boards substrate board vapor retarder walkway products and other components of membrane roofing system.
      2. Warranty Period: 15 years from date of Substantial Completion.

   b. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at end of this Section, signed by Installer, covering Work of this Section, including all components of membrane roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
      1. Warranty Period: Two years from date of Substantial Completion.

4. Thermoplastic Polyolefin Roofing Membrane
   a. Fabric-Reinforced Thermoplastic Polyolefin Sheet: Uniform, flexible sheet formed from a thermoplastic polyolefin, internally fabric or scrim reinforced, and as follows:
      1. Thickness: 60 mils, nominal.
      2. Exposed Face Color: White.
      3. Physical Properties:
         a. Breaking Strength: 225 lbf; ASTM D 751, grab method.
         b. Elongation at Break: 15 percent; ASTM D 751.
         c. Tearing Strength: 55 lbf minimum; ASTM D 751, Procedure B.
         d. Brittleness Point: Minus 22 deg F.
         e. Ozone Resistance: No cracks after sample, wrapped around a 3-inch diameter mandrel, is exposed for 166 hours to a temperature of 104 deg F and an ozone level of 100 pphm; ASTM D 1149.
         f. Resistance to Heat Aging: 90 percent minimum retention of breaking strength, elongation at break, and tearing strength after 166 hours at 240 deg F; ASTM D 573.
         g. Water Absorption: Less than 4 percent mass change after 166 hours' immersion at 158 deg F; ASTM D 471.
         h. Linear Dimension Change: Plus or minus 2 percent; ASTM D 1204.

5. Auxiliary Materials
   a. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
      1. Liquid-type auxiliary materials shall meet VOC limits of authorities having jurisdiction.

   b. Sheet Flashing: Manufacturer's standard unreinforced thermoplastic polyolefin sheet flashing, 55 mils thick, minimum, of same color as sheet membrane.
   c. Bonding Adhesive: Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.

   d. Slip Sheet: Manufacturer's recommended slip sheet, of type required for application.

   e. Metal Termination Bars: Manufacturer's standard predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.

   f. Metal Battens: Manufacturer's standard aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick, prepunched.

   g. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

   h. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, and other accessories.

6. Roof Insulation
   a. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.

   b. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces.

   c. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches, unless otherwise indicated.

   d. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

7. Insulation Accessories
   a. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.

   b. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

   c. Cold Fluid-Applied Adhesive: Manufacturer's standard cold fluid-applied adhesive formulated to adhere roof insulation to substrate.

   d. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/4 inch thick.
      1. Product: Subject to compliance with requirements, provide "Dens-Deck" by Georgia-Pacific Corporation.

   e. Metal Securement System: Perimeter securement flashing and strapping fabricated from stainless steel, a minimum of 0.031 inch thick. Provide fasteners as recommended by mortar-faced insulation manufacturer.

   f. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 24 x 24 inch x 3/16 inch thick, and acceptable to membrane roofing system manufacturer.

8. Insulation Installation
   a. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.

   b. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.

   c. Install tapered insulation under area of roofing to conform to slopes indicated.

   d. Install one or more layers of insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2 inches (50 mm) or greater, install 2 or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.

   e. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

   f. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
      1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.

   g. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
      1. Fasten insulation according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
      2. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.

   h. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 6 inches (150 mm) in each direction. Loosely butt cover boards together and fasten to roof deck.
      1. Fasten according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
      2. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

9. Adhered Membrane Roofing Installation
   a. Adhere membrane roofing over area to receive roofing and install according to membrane roofing system manufacturer's written instructions.

   b. Start installation of membrane roofing in presence of membrane roofing system manufacturer's technical personnel.

   c. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

   d. Bonding Adhesive: Apply to substrate and underside of membrane roofing at rate required by manufacturer and allow to partially dry before installing membrane roofing. Do not apply to splice area of membrane roofing.

   e. In addition to adhering, mechanically fasten membrane roofing securely at terminations, penetrations, and perimeter of roofing.

   f. Apply membrane roofing with side laps shingled with slope of roof deck where possible.

   g. Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
      1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet membrane.
      2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
      3. Repair tears, voids, and lapped seams in roofing that does not comply with requirements.

   h. Spread sealant bed over deck drain flange at roof drains and securely seal membrane roofing in place with clamping ring.

10. Membrane Splicing/Hot Air Welding Procedures
    a. Hot air weld the Sure-Weld membrane using an Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's specifications. At all splice intersections, roll the seam with a silicone roller prior to membrane seam cooling. When using .060" thick membrane, all splice intersections shall be overlaid with non-reinforced flashing)

    b. Probe all seams once the hot air welds have thoroughly cooled (approximately 30 minutes).

    c. Repair all seam deficiencies the same day they are discovered.

    d. Apply Cut Edge Sealant on all cut edges of reinforced membrane (where the scrim reinforcement is exposed) after seam probing is complete.

11. Base Flashing Installation
    a. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.

    b. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.

    c. Flash penetrations and field-formed inside and outside corners with sheet flashing.

    d. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. Weld side and end laps to ensure a watertight seam installation.

    e. Roof Walkways: Install walkway pavers according to manufacturer's written instructions in locations indicated, to form walkways. Leave 3 inches (75 mm) of space between adjacent roof pavers.

SECTION 07620 - SHEET METAL FLASHING AND TRIM

1. Zinc-Coated Steel: Commercial quality with 0.20 percent copper, ASTM A526, except ASTM A527 for lock-forming, G90 hot-dip galvanized, mill phosphatized for painting; 24 gauge, except as otherwise indicated.

2. Solder: For use with steel, provide 50-50 tin/lead solder, ASTM B52 with rosin flux.

3. Fasteners: Same metal as flashing/sheet metal or other noncorrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.

4. Bituminous Coating: SSPC-Paint 12, solvent type bituminous mastic, nominally free of sulfur, compounded for 15-mil. dry film thickness per coat.

5. Roofing Cement: ASTM D4586, asphaltic.

6. General Metal Fabrication: Shop-fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA 'Architectural Sheet Metal Manual' and other recognized industry practices. Fabricate for waterproof and weather resistant performance, with expansion provisions for running work, sufficient to permanently prevent leakage, damage, or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations for forming material. Form exposed sheet metal work without excessive oil-canning, buckling, and tool marks, true to line and levels indicated, with exposed edges folded back to form hems.

   a. Fabricate non-moving seams in sheet metal with flat-lock seams. For metal other than aluminum, trim sides to be seamed, form seams and solder. Form aluminum seams with epoxy seam sealer; rivet joints for additional strength where required.

   b. Where tapped or bayonet-type expansion provisions in work cannot be used, or would not be sufficiently water-weatherproof, form expansion joints of inter-meshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

   c. Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elasticmeric sealant, in compliance with SMACNA standards.

7. Comply with installation instructions and recommendations of SMACNA 'Architectural Sheet Metal Manual.' Anchor units of work securely in place, providing for thermal expansion of metal units; conceal fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams which will be permanently watertight and weatherproof.

8. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E. CHEESE'S
3001 COLLEGE AVE
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

ARCHITECTURAL SPECIFICATIONS

SP .2

SECTION 07631 - GUTTERS AND DOWNSPOUTS

1. References
   a. SMACNA - Architectural Sheet Metal Manual
2. Conform to SMACNA Manual for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.
3. Conform to applicable code for size and method of rainwater discharge.
4. Deliver, store, and protect products on site.
5. Stack preformed material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.
6. Prevent contact with materials during storage, which may cause discoloration, staining, or damage.
7. Galvanized Steel: ASTM A361, G90 zinc coating; 24 gauge core steel.
8. Components
   a. Gutters: SMACNA Half round
   b. Downspouts: SMACNA Round profile
   c. Accessories: Profiled to suit gutters and downspouts.
9. Accessories
   a. Anchorage devices: SMACNA requirements or type recommended by fabricator.
   b. Gutter and Downspout Supports: Brackets
   c. Fasteners: Galvanized steel with soft neoprene washers. Finish exposed fasteners same as flashing metal.
   d. Protective Back Coating: FS TT-C-494, bituminous.
   e. Solder: ASTM B32; 50/50 type.
   f. Flux: FS O-F-506.
10. Form gutters and downspouts of profiles and sizes indicated, to SMACNA requirements.
11. Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints.
12. Hem exposed edges of metal.
13. Solder shop formed metal joints. After soldering, remove flux. Wipe and wash solder joints clean. Weather seal joints.
14. Fabricate gutter and downspout accessories; seal watertight.
15. Apply bituminous protective backing on surfaces in contact with dissimilar materials.
16. Installation
   a. Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.
   b. Join lengths with formed seams sealed or soldered watertight. Flash and seal gutters to downspouts and accessories.
   c. Connect downspouts to downspout boots. Grout connection watertight.

SECTION 07722 - ROOF HATCHES

1. SECTION INCLUDES

A. Furnish labor, materials, services, equipment and appliances required for roof hatch work indicated on the Drawings and specified herein.

2. SUBMITTALS

A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show details, hardware, locking devices, flashing, insulation and anchors. Include manufacturer's installation instructions. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.

3. MANUFACTURER

A. The Drawings were prepared and this Specification written on the basis of using the products of the Bilco Company, New Haven, Connecticut. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

4. ROOF HATCHES

A. Type "S-20"; completely assembled:
   1. Curbs: 14 gage prime painted steel with 22 gauge steel liner; 12 inches high; extended flanges for mounting with screws; integral cap flashing of same gage of material as curb.
   2. Covers: Same materials and gages as curbs; continuous Neoprene gasket weatherproof seal.
   3. Curb and Cover Insulation: One inch thick rigid.
   4. Hardware: Heavy duty pintle hinges, manually operated compression spring operators enclosed in telescopic tubes, positive snap latches with plated turn handles inside and out, automatic hold-open arm with vinyl grip handle; cadmium plated finish.

5. FABRICATION

A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

6. PROTECTION

A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

7. INSTALLATION

A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

SECTION 07920 – SEALANTS AND CAULKING

1. Sealant Type 1: One component, acrylic latex, for interior non-moving joints.
   a. Sonneborn: "Sonolac" or equal.
2. Sealant Type 2: One component urethane, gun-grade, non-sag, for interior or exterior concealed moving joints, thresholds end architectural sheet metal.
   a. Sonneborn "NP1" or equal.
3. Sealant Type 3: Multi-component urethane, gun-grads non-sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weathertight locations.
   a. Sonneborn "NP2" or equal.
4. Sealant Type 4: One component, urethane, gun-grades or pourable, self-leveling for interior or exterior horizontal joints.
   a. Sonneborn "Sonalastic SL1" or equal.
5. Primer: Non-staining type, recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.
6. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint filling materials.
7. Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod, oversized 30 to 50 percent. Polystyrene is unacceptable.
8. Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.
9. Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.
10. Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.
11. Sealant applications shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.
12. All sealing shall be done with neat, smooth tooled beads, free of alt pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.
13. Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 - DOORS & WINDOWS

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1. All hollow metal doors and frames shall be furnished by the Contractor. Refer to Door Schedule on drawings.
2. Install doors and frames in accordance with SDI-100 and SDI-105 except as amended in this section. Comply with NFPA-80 for fire rated assemblies.
3. Install steel doors and frames plumb and square in correct locations indicated on drawings and with a maximum diagonal distortion of 1/16" inch. Ensure that frames are securely and rigidly anchored to adjacent construction.
4. Hang door to fit frames closely without binding, Door to come in full contact with stops when closed. Doors shall swing quietly and easily and not strike floors at any point of swing. Doors not equipped with closers shall remain stationary in any intermediate position in which they are left.
5. Immediately after installation, touch up surface coating damage with primer paint identical to that used for shop coat. Leave in clean condition, ready for finish paint specified in Section 09900. Install rubber door silencers after frames are given finish coats of paints.

SECTION 08212 - PLASTIC FACED FLUSH WOOD DOORS

1. The Drawings were prepared and this Specification written on the basis of using the products of Eliason Corporation, Easy Swing Door Division, Kalamazoo, Michigan. Phone Number 1-800-828-3655. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.
2. Door Type
   a. Easy Swing, Model SCP4W, decorative doors with pivotal hinges.
   b. Face Finish: Decorative high impact plastic laminate
   c. Color: PL-1 Hollyberry Red.
   c. Edge Caps and Base Plates: 18 inch high kick plate, 18 gauge; 304 #4 stainless steel
   d. Hardware: Manufacturer's standard including jamb guards.
   e. Windows: 3/16 inch thick clear acrylic plastic in black rubber molding, 9 inch x 14 inch viewing area mounted a minimum of 48 inches from floor to bottom of panel.
3. Delivery, Storage and Handling
   a. Scheduling: Deliver to job site at least two weeks prior to date scheduled for installation, but not before building is enclosed and proper conditions of temperature and humidity are being maintained.
   b. Packaging: Crate or package doors and hardware to protect them during transit, delivery and storage, each package marked or tagged with corresponding door number as it appears on Door Schedule.
   c. Storage: Store doors and hardware at building site under cover. Place doors on at least 4 inch wood sills or on floors in manner that will prevent damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately. Provide 1/4 inch space between doors to promote air circulation.
4. Installation
   a. Install in accord with manufacturer's instructions. Conform to AWI requirements for fit tolerances.
5. Adjusting
   a. Adjust for smooth and balanced door movement.

SECTION 08306 - ACCESS PANELS

1. Manufacturer
   a. The Drawings were prepared and this Specification written on the basis of using the products of J. L. Industries, Bloomington, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
2. Access Panels
   a. Model "FD", flush mounted access panel, 24 x 24, UL 1-1/2 hour "B" label, completely assembled as follows:
      1. Material:
         a. Door: 20 gauge steel
         b. Frame: 16 gauge steel
      2. Hardware:
         a. Hinges: Continuous hinges open to 175 with spring closure.
         b. Locks: Recessed turn ring with interior latch release devise.
      3. Anchors: Manufacturer's standard for use intended.
      4. Finish: Phosphate dipped steel with factory prime coat.
3. Installation
   a. Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREFRONTS

1. Engineering Design:
   a. Structural Properties: Fabricate and install work of this Section to withstand wind loads required by governing laws, ordinances, regulations and codes and with a maximum deflection of L/175.
   b. Thermal Movement: Fabricate and install systems to provide for expansion and/or contraction of component materials as will be caused by temperature range of 150 degrees F without causing harmful buckling, opening of joints, undue stresses on fasteners, or other detrimental effects.
   c. Water Leakage: Fabricate and install systems to deny water leakage; defined as appearance of water, other than condensation, on room side face of any part of systems.
2. Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Owner's acceptance is required prior to start of fabrication.
3. The Drawings were prepared and this Specification written on the basis of using the products of Vistawall, Terrell, TX. (214) 796-3881. Contact: Eric Loucel.
4. Storefront Framing:
   a. "FG3800 Series Storefront System" for 1" glaze system, size 2" x 4-1/2", reinforced if required by Engineering design.
   b. FG2000 Series Storefront System" for 1/4" glaze system, size 2" x 4-1/2", at interior locations.
   c. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
   d. Finish: Dark Bronze Anodized Aluminum conforming to AA-M12C22A31 and AAMA 607.1.
5. Doors and Hardware:
   b. Vistawall - Wide-stile entrance door, to match drawings, ½ inch thick tempered glass; Color to be Valspar # 384A229 Fluropon primer w/ Hollyberry Surface Coat.
   c. Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
   d. Hardware: (Refer to Hardware Schedule for catalogue numbers.)
      i. Pivots: Manufacturer's standard.
      ii. Closers: Manufacturer's standard concealed floor type, one each leaf.
      iii. Panic Devices: Manufacturer's standard "paddle handle", one each leaf.
      iv. Push-Pulls: Manufacturer's standard, one each leaf.
      v. Dead Locks: Manufacturer's standard, one each single or pair.
      vi. Lock Cylinders: Furnished as part of builders hardware.
      vii. Thresholds: 4-inch wide aluminum, handicapped accessible (exterior only).
   d. Hardware Finish: As indicated in the Hardware Schedule.
   e. Fabrication:
      a. Storefront Framing: Fabricate and assemble in shop to greatest extent possible. Cut carefully and accurately. Use compression joints between vertical and horizontal mullions, with gasket of non-hardening butyl compound. Place standard water dam, in accord with manufacturer's recommendation, between vertical and horizontal members and seal with liquid butyl compound. Provide vision and spandrel areas with drainage to outdoors in horizontal member. Sizes of components and necessary field connections and fastenings required for installation; permit easy assembly by means of standard construction equipment and tools without use of special apparatus or appliances.
      b. Doors: Fabricate doors with tight, hairline joints where rails are fitted against stiles, and fasten by means of tensioned steel tie-rods in top and bottom rails. Provide adjusting mechanism in top rail to provide for minor clearance adjustments. Glass stops; snap-in type with bulb type glazing strips. Weatherstripping; pile. Provide adjustable pile weatherstrip on one stile at meeting stiles of pairs of doors.

SECTION 08710 – FINISH HARDWARE

1. All door hardware shall be furnished by the Contractor. A Hardware Schedule is shown on drawings for further information.
2. Install hardware in accordance with manufacturer's recommendations, using proper templates.
3. Do not install surface-mounted items until finishes have been completed on the substrate.
4. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
5. Drill and countersink units, which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards,
6. Mount hardware units as indicated in DHI "Recommended Locations for Builders' Hardware for Standard Steel Doors and Frames."
7. Through-bolt all door closers.
8. Screw thresholds to substrate with No. 10 or larger stainless steel screws of the proper type for permanent anchorage of threshold.
   a. Set thresholds at exterior doors in a bed of mastic sealant to completely fill concealed voids and exclude moisture from every source. Do not plug drainage holes or block weeps. Remove excess sealant.
9. Surface mounted weather-stripping shall be installed prior to other surface mounted hardware, without breaks. Coordinate hardware accessories to suit continuous weatherstrip.
10. Clean operating items as necessary to restore proper function and finish of hardware.
11. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
12. Hardware Supplier: Contact the following:
    a. Universal Manufacturing: Contact: Theresa Land, Phone: 1-901-458-5881.

SECTION 08810 - GLASS AND GLAZING

1. Float Glass: 1/4-inch thick, clear float (plate) glass
2. Tempered Glass: 1/4-inch thick, clear "Herculite" tempered safety glass
3. Insulating Glass: "Solarban 60 (2)", 1 (one) inch thick, clear, double glazed (tempered where noted on drawings), Insulating glass units shall comply with ASTM E774.
4. Mirror Glass: 1/4-inch thick quality polished plate glass, scratch resistant, hermetically sealed with a uniform coating of electrolytic copper plating; FS #DDM-411.
5. Mastic: As recommended by manufacturer.
6. Hardware: K & V standards and brackets, satin brass finish.
7. Glazing Materials:
   a. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials involved for glazing application indicated, and with a proven record of compatibility with surfaces contacted in installation.
   b. Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.
   c. Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85 plus or minus 5.
   d. Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
   e. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side-walking).
   f. Plastic Foam Joint Fillers: Preformed, compressible, resilient, nonstaining, nonextruding, nonoutgassing, strips of closed-cell plastic foam of density, size, and shape to control sealant depth and otherwise contribute to produce optimum sealant performance.
8. Replace broken glass and clean all glass prior to final inspection.

DIVISION 9 - FINISHES

SECTION 09100 - METAL STUD FRAMING SYSTEM

1. Section includes:
   a. Formed metal stud framing
   b. Framing accessories
2. References
   a. ASTM A525 - Standard specification for general requirements for steel sheet, zinc-coated (galvanized) by the hot-dip process.
   b. ASTM C645 - Standard specification for non-load (axial) bearing steel studs, runners (track), and rigid furring channels for screw application of gypsum board.
   c. ASTM C754 - Standard specification for installation of steel framing members to receive screw-attached gypsum board.
   d. ASTM C1002 - Standard specification for steel drill screws for the application of gypsum board or metal plaster bases.
3. System Description
   a. Maximum allowable deflection: 1:240 span.
   b. Wall system:
      1. Design to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
      2. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
   c. Shop drawings:
      1. Indicate component details, stud layout, framed openings, anchorage to structure, type and location of fasteners, and accessories or items required of other related work.
      2. Describe method for securing studs or tracks, splicing and for blocking and reinforcement to framing connections.
      3. Provide calculations for loadings and stresses of exterior walls.
4. Manufacturer
   a. United States Gypsum Company, Chicago, Illinois. Or approved equal.
5. Stud Framing Materials
   a. Framing System Components: ASTM C645.
   b. Studs: ASTM A525, Coating Class G-90, non-load bearing rolled steel, channel shaped, punched for utility access, as follows:
   c. Depth: 3-5/8 and 6 inches.
   d. Thickness: 20 gauge unless noted otherwise.
   e. Tracks and Headers: Same material and thickness as studs, bent leg retainer notched to receive studs.
   f. Furring and Bracing Members: Of same material as studs; thickness to suit purpose.
   g. Fasteners: ASTM C1002, self-drilling, self tapping screws.
   h. Touch-up Primer for Galvanized Surfaces: SSPC-Paint 20, Type II organic, zinc rich.
6. Finishes
   a. Studs: Galvanize to G90 coating class.
   b. Tracks and Headers: Galvanize to G90 coating class.
   c. Accessories: Same finish as framing members.
7. Deliveries and Storage
   a. Deliver materials in original unopened packages and store in enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from premises.
8. Erection
   a. Align and secure top and bottom runners at 16 inches O.C. at exterior and 16" O.C. at interior unless noted otherwise.
   b. Install studs vertically at 16 inches O.C. at exterior and 16" O.C. at interior unless noted otherwise.
   c. Secure studs to tracks using fastener method. Do not weld.
   d. Stud splicing is not permissible.
   e. Fabricate corners using a minimum of three studs.
   f. Double stud at wall openings, door and window jambs, not more than 2 inches from each side of openings.
   g. Coordinate erection of studs with requirements of door and window frames, install supports and attachments.
   h. Grouting: Spot grout frames at jamb anchor clips before panel erection.
   i. Coordinate installation of wood bucks, anchors, and wood blocking with electrical and mechanical work to be placed within or behind stud framing.
   j. Blocking: Secure wood blocking to studs. Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories, hardware, and opening frames.
   k. Metal Framing Erection (Ceilings)
      1. Small Areas: Attach runners at ceiling height, through gypsum panels, to each partition stud. Insert steel studs in runner and attach each end. Install stud cross-bracing over stud framing space 48 inches OC and attach to each framing stud. At openings that interrupt ceiling, install additional cross reinforcing to maintain structural integrity of framing.
      2. Large Areas: Install hanger wires, carrying members, furring channels and reinforcing at openings, in accord with systems manufacturer's specifications.
9. Erection Tolerances
   a. Maximum variation from true position: ¼ inch in 10 feet.
   b. Maximum variation from plumb: ¼ inch in 10 feet.

SECTION 09260 - GYPSUM BOARD SYSTEMS

1. Gypsum Panels - Types Required
   a. Regular board: ASTM C36, tapered edges, thickness 5/8".
   b. Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8".
   c. Water resistant board: ASTM C630, tapered edges, thickness 5/8".
   d. Tile Backer Board: "Dens-Shield Firestop", type "X", 5/8" thick, non-structural, fiberglass-faced, silicone treated gypsum core panel or equal.
   e. Cement Backer Board: Durock Cement Board, 5/8" thick, non-structural.
2. Studs, Trim and Accessories
   a. Steel Studs: Per ASTM C645, galvanized, gauges as noted. Track shall be one size heavier than studs.
   b. Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 "Dur-A-Bead," #093 and #200-A respectively, galvanized; Unless otherwise detailed, exposed "J" trim is not acceptable.
3. Fasteners: Screws, per ASTM 1002; 1-1/4' Type 'W' bugle head into wood framing, 1-1/8" Type 'S" bugle head into steel framing, and 3/8" Type "S-12" pan (or low profile) head for steel to steel framing connections.
4. Joint Treatment Materials
   a. Joint Tape: Paper-reinforcing tape, per ASTM C475.
   b. Joint Compound: Provide chemical hardening type for bedding and filling, and ready-mixed vinyl type for topping, per ASTM C475.
5. Textured Finish: Medium orange-peel texture.
6. Acoustical Sealant:
   a. Acoustical Sealant for Exposed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.
   b. Acoustical Sealant for Concealed Joints: Manufacturer's standard nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.
7. Steel Framing and General Gypsum Board Installation Requirements:
   a. Steel Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840, Studding shall be 16" o.c. unless otherwise noted. Provide horizontal bracing at 4'-0" o.c. measured vertically. Frame door openings to comply with GA219.
   b. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling, Stagger end joints at least 4'-0".
   c. Install wall/partition boards vertically to avoid end-butt joints wherever possible.
   d. Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
   e. Space fasteners in gypsum board in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.
      1) Parallel Application: 12" o.c. in field; 8" o.c. along edges.
      2) Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.
8. Installation of Drywall Trim Accessories
   a. Install metal corner beads at horizontal and vertical external corners of drywall work. Secure with screws; clinching is not acceptable.
   b. Install metal control joint (beaded-type) where indicated at 30'-0" maximum centers in any wall or ceiling.
9. Finishing of Drywall:
   a. Apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fastener heads, surface defects and elsewhere as required to prepare work for decoration. Apply joint compound in 3 coats. Sand between last 2 coats and after last coat.
   b. Water-resistant Gypsum Board Base for Ceramic Tile. Comply with recommendations of gypsum board manufacturer for treatment of joints.
   c. Fire Taping: Fire tape all fire rated walls with tape and one coat of compound on all joints above ceilings, Mud all fasteners, to achieve a level 1 Finish.
   d. Cement Board: General: Install Cement Board where indicated in the drawings. Screw substraight to studs, tape joints and apply adhesive per Manufacture's instructions.
10. Application of Texture Finish
    a. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions.
    b. Mix and apply finish to drywall and other surfaces indicated to receive finish in strict accordance with manufacturer's instructions to produce a uniform texture without starved spots or other evidence of the application, and free of application patterns.
    c. Remove texture droppings from door frames, windows, and adjoining work.

SECTION 09300 - CERAMIC AND QUARRY TILE

1. Quality Assurance: Perform tile work in accordance with the requirements of ANSI-TCI 137.1, "Recommended Standard Specification for Ceramic Tile".
2. Ceramic and Quarry Tile:
   a. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
   b. Quarry Tile: Quarry tile to be Summitville Tile 6" x 6" tile double abrasive (in aisle); smooth (under equipment) with 6" cove base. All quarry base throughout store to be installed over tile backer board. Color: As noted on Finish Schedule on Drawings.
   c. Waterproof membrane: Two-component liquid rubber latex with continuous fiberglass reinforcement equal to Laticrete 30/335. Apply where indicated in the drawings.
3. Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.
4. Mix and proportion pre-mix setting bad and grout materials in accordance with manufacturer's instructions.
   a. Use Epoxy, Silicone, or polyurethane additives in grout to be located in areas subject to grease, oil, acid and water.
5. Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in bath directions in each space at an each wall area so that no tiles less then 1/2 full tile will occur. Provide uniform joint widths.
6. All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.
7. Cut and fit tile right to protrusions and/or perpendicular interruptions.
8. Sound tile after setting. Replace hollow sounding units.
9. Allow tile to set for a minimum of 48 hours prior to grouting.
10. Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non-staining covering during the construction period.
11. Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer's printed instructions.

SECTION 09510 - ACOUSTICAL CEILINGS

1. Acoustical Panels:
   a. Dining Areas (LT-1)
      1. Manufacturer: Armstrong (National Account Pricing Available)
      2. Panels: #1761 HA, Fine Fissured Second Look II, Medium texture - (Class A fire rated where required by code)
      3. Size: 24"x 48" x 3/4" (Scored)
      4. Edges: Angled Tegular
      5. Suspension System: Prelude XL, 15/16" Exposed Tee grid
         a. Exposed, direct hung, per ASTM C635.
         b. Concealed grid member shall be electro-galvanized.
         c. Structural Classification: Intermediate duty.
         d. Provide fire rated grid where indicated or scheduled, or required by local codes.
      6. Finish: White
   b. Kitchen (LT-2)
      1. Manufacturer: Armstrong (National Account Pricing Available)
      2. Panels: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
      3. Size: 24"x 48" x 1/2"
      4. Edges: Square
      5. Suspension System: Prelude XL, 15/16" Exposed Tee grid.
         a. Exposed, direct hung, per ASTM C635.
         e. Concealed grid member shall be electro-galvanized.
         f. Structural Classification: Intermediate duty.
         g. Provide fire rated grid where indicated or scheduled, or required by local codes.
      6. Finish: White
   c. Order / Pick-up (LT-3)
      1. Manufacturer: Armstrong (National Account Pricing Available)
      2. Panels: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
      3. Size: 24"x 48" x 1/2"
      4. Edges: Square
      5. Suspension System: Prelude XL, 15/16" Exposed Tee grid.
         a. Exposed, direct hung, per ASTM C635.
         h. Concealed grid member shall be electro-galvanized.
         i. Structural Classification: Intermediate duty.
         j. Provide fire rated grid where indicated or scheduled, or required by local codes.
      6. Finish: Paint to match LT-1 above
2. Miscellaneous Materials:
   a. Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temper, pre-stretched Class 1 coating, sized so that stress at 3-times hanger design load (ASTM C635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gauge.
   b. Edge Moldings and Trim: Metal of types and profile indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations on ceiling which fits with type of edge detail and suspension system specified.
3. Installation:
   a. Install suspension systems to comply with ASTM C636. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8' in 12'-0". In kitchen areas, hangers shall be spaced 3'-0" along each carrying channel or direct-hung runner to obtain load capacity of 16 lbs/LF. Provide hanger wire at each corner of each recessed fluorescent fixture.
   b. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.
   c. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset recruiting horizontal force by bracing, counter-splaying or other equally effective means.
   d. Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.
   e. Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

SECTION 09679 - RESILIENT BASE (VINYL)

1. Furnish labor, materials, services, equipment and appliances required for resilient base work indicated on the Drawings and specified herein.
2. The Drawings were prepared and this Specification written on the basis of using the products of Burke, Inc., San Jose, CA.. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
3. Base:
   a. Type: "Cove" Base: use at hard surface and/or resilient flooring floor installations scheduled "vinyl base" on the Drawings.
   b. Trim Pieces: Match base type.
   c. Color: #217 Charcoal (Supplied by the Owner).
4. Adhesive as recommended by base manufacturer.
5. Conditions:
   a. Temperature: Maintain minimum temperature of 70 degrees F for 48 hours before, during and for 48 hours after. Do not install base when temperature is below 70 F degrees.
   b. Surface of Wall: Clean surfaces to receive base free from moisture, paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects.
6. Defer installation until work that might cause damage to base has been completed. Install "cove" base after installation of adjacent floor surface.
7. Application
   a. Adhesive: Apply in accord with base manufacturer's instructions; cover at least 75 percent of back of base.
   b. Base and Trim Pieces: Use molded inside and outside corners and stops where base terminates, as at doors. Install with tight joints with top and bottom edges in firm contact with walls and floors.
   c. Fitting: Tight-fit each joint, tops of adjacent pieces matched; each piece in contact with floor and adjacent piece or trim pieces.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

ARCHITECTURAL SPECIFICATIONS

SP.3

DIVISION 9 - FINISHES (cont.)

SECTION 09680 - CARPET

1. Work of this Section consists of installing all materials furnished under this Section, including all equipment, labor, services, and incidental items required to complete Work as shown on Drawings and specified in this Section.
   a. Preparation of substrate to receive Carpet as required and specified in this Section.
   b. Glue-Down Carpet Installation, complete with Accessories.
2. Shop Drawings:
   a. Show layout and seaming diagrams.
   b. Indicate pile of pattern direction and locations and types of edge strips.
   c. Indicate columns, doorways, enclosing walls or partitions, built-in cabinets and locations where cutouts are required in carpet.
   d. Show installation details at special conditions.
3. Substrate Conditions – Direct Glue Down on new or existing Concrete:
   a. No condensation within 48 hours on underside of 4 ft. x 4 ft. polyethylene sheet, fully taped at perimeter to substrate.
   b. Max. 9 pH when substrate welted with potable water and pHdrion paper applied.
4. Materials:
   a. Carpet: Owner-furnished, Contractor installed. Manufacturer and colors as specified on the drawings.
   b. Accessories:
      i. Carpet Edge Guard – Marble, as detailed in drawings. Color to be determined by Owner.
      ii. Seaming Cement: Hot-melt seaming adhesive or similar product recommended by carpet manufacturer, for taping seams and buttering cut edges at backing to form secure seams and prevent pile loss at seams.
      iii. Carpet Adhesive: Water –resistant, nonstaining-type recommended by carpet manufacturer, and complying with flammability requirements for installed carpet.
      iv. Miscellaneous Materials: As recommended by manufacturers of carpet and other carpeting products: and selected by installer to meet Project circumstance and requirements.
5. Preparation: Clear away debris and scrape up cementiticus deposits form surfaces to receive carpeting; apply sealer to prevent dusting.
6. Installation:
   a. Comply with manufacturer's recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile.
      i. At doors, center seams under doors in closed position.
      ii. So not place seams perpendicular to doorframe, in traffic direction through doorways.
      iii. Extend carpet under removable flanges and furnishings, and into alcoves and closets of each space.
      iv. Provide cutouts where required, and bind cut edge of carpet is exposed; anchor guards to substrate.
      v. Install carpet edge guard where edge of carpet is exposed; anchor guards to substrate.
7. Glue-Down Installation:
   a. Fit sections of carpet into each space before application of adhesive.
   b. Trim edges and butt cuts with seaming cement.
   c. Apply adhesive uniformly to substrate in accordance with manufacturer's instructions.
   d. Butt carpet edges tightly together to form seams without gaps.
   e. Roll entire carpet area lightly to eliminate air pockets and ensure uniform bond.
   f. Remove adhesive promptly from face of carpet by method, which will not damage carpet face.

SECTION 09770 - PREFINISHED WALL PANELS

1. Manufacturer: Marlite, 202 Harger Street, Dover, Ohio 44622.
2. Panels:
   a. Wall Panels: Decorative 1/4 inch, pre-finished wall panels to be Marlite Plank, product number PLK-5446-S2V; color: "Morning Haze".
   b. Slotted panels: Pre-finished 3/4 inch, slotted merchandising panels to be Marlite Displawall, product number 2764; color: "Crystal Gray".
3. Accessories:
   a. All molding and trim shall be pre-finished at the factory to meet site conditions per manufacturer's standard detailing.
   b. Adhesive to be C-375 Marlite Construction Adhesive as required, to meet ASTM C557.
   c. Wall brackets to be utilized per manufacturer's standard details for installation intended.
   d. Sealant to be MS251 Marlite Silicon Sealant as required.
3. Preparation:
   a. Pre-finished panels must be installed over a smooth, solid, flat sub wall assembly.
   b. Do not begin installation until building is completely enclosed and interior conditions are being maintained as intended during occupancy; approximately 70 degrees F.
   c. Cartons should be opened and allowed to acclimate to room conditions for at least 48 hours prior to installation.
5. Installation:
   a. Install in strict accordance with manufacturer's written instruction, especially in regard to fastening system and bracket spacing necessary to achieve optimum capacity.
   b. Avoid contamination of panel faces with adhesives, solvents or cleaners; clean as necessary and replace if not possible to repair to original condition.
   c. Protect installed products until completion of project.

SECTION 09900 - PAINTING

1. Provide labor, materials, equipment and related items required to complete the exterior and interior items and surfaces throughout the project including filling, sealing, priming, and finishing.
2. Mechanical and Electrical work to be painted includes the following a (but not limited to):
   a. Exposed piping and/or pipe insulation, inside and outside building.
   b. Mechanical equipment supports.
   c. Exposed conduit, boxes, and panel fronts.
3. Ensure surface temperatures and the surrounding air temperature are above 50 degrees F. before applying paint materials.
4. Provide adequate continuous ventilation and sufficient heating facilities to maintain temperature above 45 degrees F. for 24 hours before, during and 48 hours after application of paint and materials.
5. Provide minimum 25-foot candles of lighting on surfaces to be painted.
6. Acceptable Manufacturer
   a. Sherwin Williams
7. Perform preparation, filling, sealing, sanding, and cleaning of surfaces scheduled to be painted in accordance with paint manufacturer's instructions.
8. Remove hardware and accessories, fittings, and fastenings, electrical plates, lighting fixture and similar items. Reinstall removed items after completion of painting.
9. Do not paint over dirt, dust, stains, rust, scale, oil, grease, moisture, scuffed surfaces, or other contamination or conditions detrimental to formation of a durable paint film.
10. Backprime woodwork as follows:
    a. Exterior painted wood and lap siding: "Latex Exterior Primer".
11. Apply paint in accordance with paint manufacturers instructions and as herein specified.
12. Apply each coat of paint at no less than spreading rate indicated in manufacturer's instructions.
13. Sand lightly between enamel coats.
14. Completely cover items/surfaces scheduled to be painted, to provide a smooth surface of uniform finish, color, appearance and paint material coverage free from cloudiness, spotting, holidays, laps, brush marks, runs, streaks, sags, ropiness and other surface imperfections.
15. Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein. Colors are indicated on drawings.

Exterior Surfaces

1. Wood Trim (Paint)
   1st coat: Sherwin Williams - A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
   2nd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series
   3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
2. Wood "Stained"
   1st coat: Lauritzen & Makin, Inc. Wood stain.
   2nd coat: Same as first coat.
   3rd coat: Marine Varnish, Satin finish, or acceptable substitute, with manufacturer's application instructions included with each container.
3. Ferrous Metals and Exposed Gas Lines
   1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
   2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
   3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

   Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
4. Stucco and EIFS:
   1st coat: Sherwin Williams Loxon Conditioner (A24-100 Series)
   2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
   3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
5. Concrete Masonry:
   1st coat: Sherwin Williams Loxon XP™ Waterproofing System, A24 Series (Block Filler)
   2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
   3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
6. Prepainted Equipment (Rooftop Equipment, Transformers, Etc.)
   1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
   2nd coat: Same as first coat.

Interior Surfaces

6. Wood Doors and Trim (Paint)
   1st coat: Sherwin Williams PrepRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
   2nd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series
   3rd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)
7. Wood Trim "Stained"
   1st coat: Lauritzen & Makin, Inc. (817/921-0218) wood stain.
   2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
8. Wood Doors "Stained"
   Same as for Exterior Wood "Stained"
9. Woodwork Backpriming
   One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
10. Gypsum Wallboard
    1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
    2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
11. Ferrous Metal and Gas Lines
    First: Remove all dirt, grease, oil, and scaly material.
    1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
    2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
    3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)

DIVISION 10 - SPECIALTIES

SECTION 10150 - TOILET COMPARTMENTS

1. All compartments and screens are furnished and installed by the Contractor. Manufacturer equal to Global Steel Products; Floor mounted / Overhead braced partitions,
2. Steel Sheets for Stainless Steel Finish: ASTM A 591 (ASTM A 591M), Class C, galvanized-bonderized, of following minimum thicknesses:
   1. Pilasters (overhead-braced): 1 1/4" thick panels with (22 ga.) steel sheets.
   2. Panels and Screens: 1" thick panels with (22 ga.) steel sheets.
   3. Doors: 1" thick panels with (22 ga.) steel sheets.
   4. Core: Honeycomb core.
   5. Reinforcement: Provide plywood cores at grab bar locations.
   6. Finish: Brushed Stainless Steel finish.
   7. Hardware: Manufacturer's standard hardware; chromium-plated diecast Zamac.
3. Install partitions secure, plumb, level and square
4. Mount panels, doors and urinal screens with bottom edges 12 inches above the floor.
5. Mount headrails for bracing 12 inches above tops of doors and panels.
6. Attach panel brackets securely to walls using appropriate anchorage devices.
7. Attach panel and pilaster to brackets with through bolts and nuts.
8. Anchor urinal screens to walls to support 150 pound loads required in RR-P-1352.
9. Conceal floor fastenings with pilaster shoes.
10. Equip each door with hinges, latch, keeper and stop, door pull and coat hook with bumper.
11. Adjust and align hardware to uniform clearance at vertical edges of doors not exceeding 3/16 inch.
12. Adjust hinges to locate doors in partial open position when unlatched.
    a. Set Accessible Compartment doors to return within 5 degrees of closed position.
    b. Set all other doors to return within 30 degrees of closed position.

SECTION 10265 - CORNER GUARDS

1. Coordinate the work with wall or partition Sections for installation of concealed blocking or anchor devices.
2. Deliver, store and handle products in accordance with Section 01600
3. Corner Guards
   a. At all exposed corners in Kitchen area.
      1. Design: Surface applied with adhesive.
      2. Material: Stainless Steel, 2 inch x 2 inch x full height.
      3. Thickness: 18 gauge.
      4. Finish: No. 4 Satin.
      5. Taper edge.
   b. At all exposed corners throughout building except Kitchen area.
      1. Design: Surface applied with adhesive.
      2. Material: Extruded Plastic, 1 ¼ inch x 1 ¼ inch x 4 feet.
      3. Finish: Glossy White.
      4. Taper edge.
4. Verify that substrate finishes are complete and attachment devices in hollow walls are accurately located.
5. Installation
   a. Install using skilled workmen.
   b. Locate devices as shown on the Drawings.
   c. Stop corner guards at heights indicated from top of base to bottom of ceiling, unless noted otherwise.

SECTION 10442 - INTERIOR DOOR SIGNS

1. Design and Fabrication
   a. All patterns for fabrication, regardless of production technique, method, or process specified, shall be approved by the Architect prior to production in order to ensure conformity to design with regard to letter form and height, wording, spelling, capitalization, punctuation, letter spacing, leading and layout or composition.
2. The drawings were prepared and this specification written on the basis of using the products of Kroy Sign Systems, Scottsdale, Arizona. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.
3. Regulatory signage series opaque acrylic, matte finish plaques, with front surface hot stamp graphics, in low profile frame. Configuration shown on drawings to conform with Americans With Disabilities Act regulatory requirements.
4. Provide one sign (unit) for each restroom door opening for public facilities.
5. Installation shall be started at the time established by the General Contractor. However, no sign work shall be permitted in the building before the building is completely enclosed and all painting and work of other trades is finished.
6. Install signs in accord with approved shop drawings. Install true to line, plumb, level, square, in proper planes with other work and free from objectionable defects. Anchor to adequately resist all normally subjected stresses.

SECTION 10523 - PORTABLE FIRE EXTINGUISHERS

1. Section Includes Fire extinguishers and Mounting brackets
2. Provide new portable fire extinguishers which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.
3. Dining Area Fire Extinguishers:

   a. Provide where located on drawings, equal to J.L. Industries "Cosmic A" Series Model 10E, Class A, B, and C, cabinet-mounted 10 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.

   b. Semi-recessed cabinet with rolled edge trim, Ambassador Series, fabricated of at least 18 gauge steel, box size 10 1/2 x 24 x 6, factory prime coated for field painting. Cabinet to have Vertical Duo-panel with clear acrylic glazing and Saf-T-Lok.
4. Kitchen Area Fire Extinguishers:

   a. Provide a minimum of two, equal to J.L. Industries "Galaxy Series - Model 6" wall-mounted, dry chemical type 40 BC UL rated, 6 lb. capacity fire extinguishers with pressure gauge.

   b. Brackets: Equal to J.L. Industries "Mark Brackets, Model MB808" for Model 6 fire extinguisher.
6. Anchors: Non-corrosive types as required by wall conditions.
7. Mount in strict conformance with manufacturer's instructions; in locations noted on drawings and locations directed by local fire marshal.

SECTION 10800 - TOILET ACCESSORIES

1. All toilet accessories are furnished and installed by the Contractor. Coordinate rough-in, openings and wood blocking.
2. Install fixtures, accessories and items in accordance with manufacturer's instructions, and where affected, at heights or locations for the handicapped as indicated or specified herein.
3. Install true, plumb and level, securely and rigidly anchored to substrate.
4. See Typical Restroom Accessories Schedule for Manufacturer and item number information.
5. Baby Changing Stations (Koala Bear Kare) to be furnished and installed by the Contractor. This is a non-substitute item to be ordered from:

Koala Kare Products
6982 South Quentin Street
Centennial, CO 80112
Phone: 1-888-733-3456

DIVISION 11 - EQUIPMENT

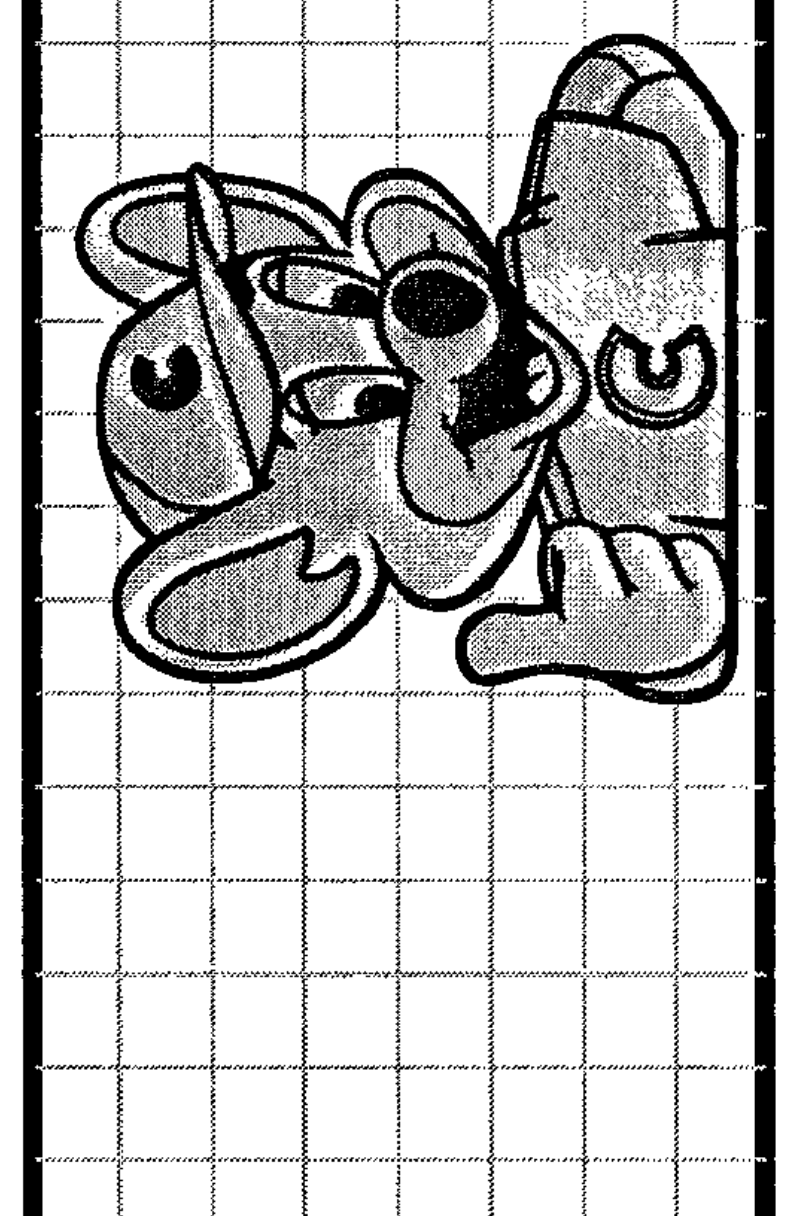
SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)

1. Section includes: Installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.
2. Related Sections
   a. Mechanical and electrical services and final connections to equipment.
3. Owner will provide equipment manufacturer's installation instructions for Contractor's use.
4. Owner will provide equipment manufacturer's operation and maintenance data for Contractor's use.
5. Coordinate size of access and route to place of installation.
6. Owner Provided (By Owner):
   a. Equipment scheduled on the drawings.
   b. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
   c. Motor starters.
   d. Walk-in refrigerator/freezer thermostats.
   e. Stainless steel trim strips, supports and connections, attachment devices, and accessories.
7. Contractor Provided: Refrigerant System Installation
   a. Refrigerant Lines: Type "L" hard copper tubing.
   b. Fittings: Wrought copper or brass designed for use with high temperature solder.
   c. Piping Joints: Made with silver solder (Sil-Fos).
   d. Piping: Properly suspended from an anchor to the structure with adjustable hangers 6' o.c. maximum.
   e. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
   f. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong - 1" thick at medium temp., 1-1/2" thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3-6548 silicone RTV foam.
   g. Evacuation and Charging: After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuations to be in accordance with manufacturer's recommendations.
8. Delivery, Handling and Storage
   a. Delivery: Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
   b. Handling: Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cars. Keep utility hookup notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer's directions, taking care to make sure fasteners are tight and components are aligned and square.
   c. Storage: Store equipment clear of floor in manner to prevent warping, twisting, or sagging.
9. Installation
   a. Install items in accord with manufacturer's instructions and fabricator's shop drawings. Install in accord with local governing Health, Building, and Safety, and Fire Protection Codes and Regulations and NEMA, UL, AGA, ASME and NFPA.
   b. Electrolysis: Insulate to prevent electrolysis between dissimilar metals. Provide sealant to achieve clean joint without crevices.
   c. Equipment
      1. General: Set in place and position per kitchen equipment plan; ready for utility hook up. After utility hookups are made, level and secure dishtables to slope toward dishwasher. Completely close and seal gaps, joints and seams between fixtures/equipment and walls, ceilings and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in joints or seams over 3/16 inch wide.
      2. Refrigerant Piping: Install copper tubing and fittings. Cut with pipe cutters and reshape with sizing tool. Expose piping to view as required by American Standard Safety Code for Mechanical Refrigeration. For exposed areas or accessible furred ceiling spaces, use hard copper tubing. Run exposed tubing in such manner as to prevent damage from activities in areas; otherwise run tubing in pipe or conduit.
         a. Suction Lines: Size to give max pressure drop from evaporator to machine of 2 lb. For high temp system and 1 lb. For freezer system, allowing gas velocities of not less than 750 rpm in horizontal runs and 1500 rpm in vertical risers. Size liquid lines to give max pressure drop of 3 lbs. from receiver to evaporator.
         b. Tubing Runs: Grade to prevent trapping of oil.
         c. Ties: Secure suction and liquid lines for each system together, except when run through conduit; 24 inch intervals with black plastic electrical tape.
         d. Insulation: Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
         e. Hangers and Supports: Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.
      3. Walk-In Cooler Freezer Boxes: Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigeration lines, etc., to prevent frost and condensate build-up. Electrical conduits; on exterior of box.
      4. Oil Separators: Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut-off valves of packless stem type.
      5. Evaporator Coils: Support by hangers utilizing fish plates on top of walk-in unit a full 4 inches clear from underside of ceiling panels.
      6. Remote Wine Systems: Installed by local manufacturer's representative installer.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

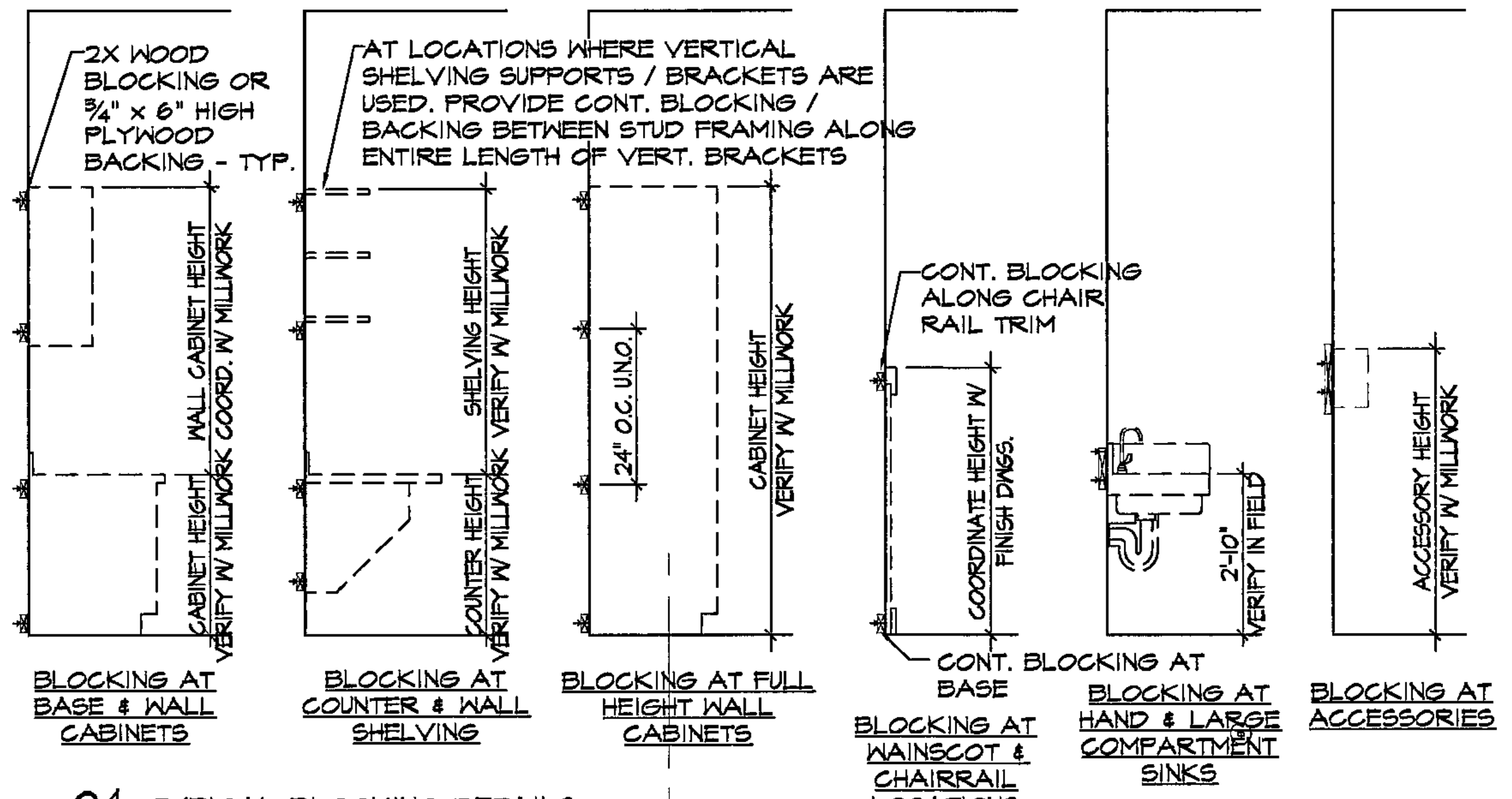


CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10
SPECIFICATIONS

SP .4


2X WOOD BLOCKING OR ¾" x 6" HIGH PLYWOOD BACKING - TYP.
AT LOCATIONS WHERE VERTICAL SHELVING SUPPORTS / BRACKETS ARE USED. PROVIDE CONT. BLOCKING / BACKING BETWEEN STUD FRAMING ALONG ENTIRE LENGTH OF VERT. BRACKETS
WALL CABINET HEIGHT COORD. W/ MILLWORK
CABINET HEIGHT VERIFY W/ MILLWORK
SHELVING HEIGHT VERIFY W/ MILLWORK
COUNTER HEIGHT VERIFY W/ MILLWORK
24" O.C. U.N.O.
CABINET HEIGHT VERIFY W/ MILLWORK
CONT. BLOCKING ALONG CHAIR RAIL TRIM
COORDINATE HEIGHT W/ FINISH DWGS.
CONT. BLOCKING AT BASE
2'-10" VERIFY IN FIELD
ACCESSORY HEIGHT VERIFY W/ MILLWORK
BLOCKING AT BASE & WALL CABINETS
BLOCKING AT COUNTER & WALL SHELVING
BLOCKING AT FULL HEIGHT WALL CABINETS
BLOCKING AT WAINSCOT & CHAIRRAIL LOCATIONS
BLOCKING AT HAND & LARGE COMPARTMENT SINKS
BLOCKING AT ACCESSORIES

04 TYPICAL BLOCKING DETAILS

SCALE: N.T.S.

BLOCKING NOTES

1. BLOCKING CONDITIONS SHOWN DO NOT ACCOUNT FOR ALL CONDITIONS THAT MAY EXIST ON THE PROJECT. THE CONTRACTOR IS TO ACCOUNT FOR ALL BLOCKING INDICATED IN ENTIRE CONTRACT DOCUMENT PACKAGE OR SPECIFICALLY REQUIRED BY THE MANUFACTURERS OF SPECIFIED PRODUCTS AND MATERIALS.

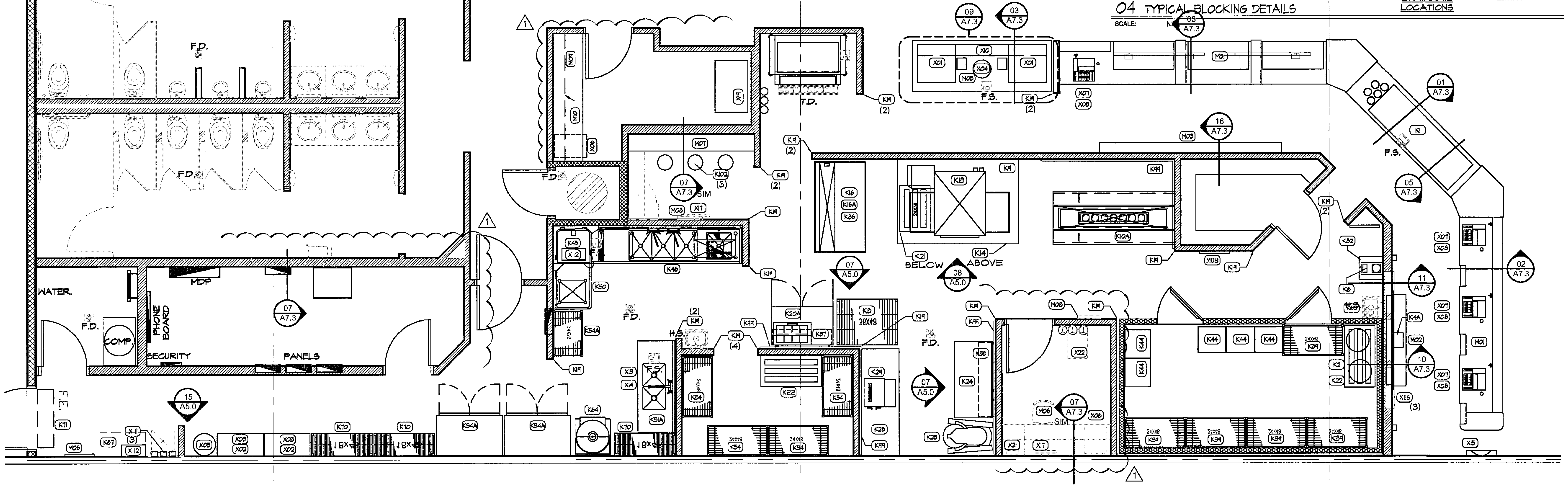
2. THE CONTRACTOR SHALL WALK THE SITE TO FINALIZE ALL LOCATIONS OF BLOCKING IN WALLS / CEILING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD.

3. COORDINATE THE EXACT REQUIRED LINEAR FOOTAGE AND LOCATIONS OF BLOCKING WITH EACH SPECIFIC FIXTURE, ACCESSORY, EQUIPMENT, CASEWORK, AND MILLWORK. THE CONTRACTOR IS TO COORDINATE WITH MILLWORK ON ALL ITEMS TO BE SUPPLIED AND / OR INSTALLED BY CEC.

4. WHERE EXACT LOCATION OF ITEM REQUIRING BLOCKING WILL NOT BE DETERMINED UNTIL AFTER INSTALLATION OF THE GYPSUM WALLBOARD, EXTEND BLOCKING A MIN. OF 12" BEYOND EACH SIDE THE ESTIMATED LOCATION OF THE DESIGNATED ITEM AS INDICATED IN THE PLANS OR AS SPECIFIED BY MANUFACTURER.

5. ALL BLOCKING IS TO BE CONTINUOUS ALONG THE FULL LENGTH OF THE ITEM REQUIRING BLOCKING UNLESS NOTED OTHERWISE OR INDICATED BY MANUFACTURER.

6. WHERE SPECIFIC CODE RELATED OR MANUFACTURER LOAD REQUIREMENTS ARE REQUIRED, THE CONTRACTOR IS TO CONFIRM THE INSTALLATION OF THE REQUIRED BLOCKING MEETS OR EXCEEDS THE REQUIREMENTS OF THE CODE.



01 KITCHEN EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE

EQUIPT. NOT USED UNLESS SHOWN ON PLAN OR OTHERWISE NOTED.

O - OWNER K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
P - PLUMBING G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
K1	INSULATED SALAD PAN	CUSTOM FABRICATED (7' LENGTH)	W/ SALAD INSERTS; SUPPLY PVC & CONNECT TO DRAIN	O/M	G	G/P	N/A	-
K2	SECURITY UNIT	METRO MODEL #SECM2448NK3		O/K	G	N/A	N/A	-
K4A	BEVERAGE BEER SYSTEM	GLASTENDER / THRU THE WALL BEER	THROUGH-WALL BEER SYSTEM	O/K	G	N/A	N/A	-
K6	COFFEE BREWER	BUNN-O-MATIC - #CWTF15-2	W/ 1 LOWER WARMER & COFFEE DECANTER	O/K	G	N/A	N/A	-
K8	PROOFING RACK	METRO/SUPER ERECTA SHELVING	24"x48" WITH CASTERS	O/K	G	N/A	N/A	-
K9	SS WALL PANELING	CUSTOM FABRICATED	SS TRIM INSTALLED UP TO BOTTOM OF HOOD AND MAKE TABLE	O/K	V	V/E/P	V	X
K10A	REFRIG. PIZZA MAKE TABLE	RANDELL MODEL #51395PR	2 SIDED REFRIGERATED PIZZA TABLE W/ TICKET MINDER AND NIGHT COVERS AND CASTERS	O/K	G	G	G	-
K13	DBL. STACK PIZZA OVEN	MIDDLEBY MARSHALL - #PS640-1	GAS/ELECTRICAL CONNECTION - 1 ELECT OUTLET PER UNIT (2) TOTAL	O/K	G	G	N/A	
K14	EXHAUST HOOD	CAPTIVE AIRE 8'-0" LONG x 72" DEEP	INCLUDES CURB; DUCTWORK BY G.C.	O/K	G	N/A	N/A	-
K16	SS CUT TABLE	CUSTOM FABRICATED	72" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @72"A.F.F.	O/K	G	N/A	N/A	-
K16A	FOODWARMER	HATCO GLO-RAY #GRAH-60	TUBULAR METAL HEATER ROD					-
K19	SS CORNER GUARDS	CUSTOM FABRICATED	CUT TO FIT APPLICATION IN THE FIELD / G.C. TO PROVIDE EXACT COUNT TO FABRICATOR	O/K	G	G	G	-
K20A	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE - #TSSU-48-8	WORK TABLE W/ CASTERS, 48 1/4x30x42 9/16	O/K	G	G	G	-
K21	DUNNAGE RACK	NEW AGE MODEL #6008	24"x36" AT OVEN	O/K	G	G/E	N/A	-
K22	DUNNAGE RACK	NEW AGE MODEL #6009	24"Wx48"Lx12"H AT DRY STORAGE & COOLER	O/K	G	G/E	N/A	-
K23	DOUGH MIXER	HOBART LEGACY PIZZA MIXER - #HL662	VERIFY CLOCKWISE ROTATION AND DISCONNECT @ 42" A.F.F.	O/K	G	N/A	N/A	-
K24	SS BUNNING TABLE	EAGLE GROUP MODEL #T3060SEB-BS	30"x60" W/ BACKSPLASH AND CASTERS	O/K	G	N/A	N/A	-
K26	SS PREP TABLE	EAGLE GROUP	WORK TABLE W/ ASTERS @ 2 SHELVES 72" L X 24" DP. X 42" H.	O/K	G	N/A	N/A	-
K28	SS DOUGH TABLE	EAGLE GROUP MODEL #T3084SEB-BS	W/ UNDERSHELF AND CASTERS (VERIFY LENGTH ON PLAN)	O/K	G	G	N/A	-
K29	DOUGH ROLLER (SHEETER)	SOMERSET IND. - #CDR-2000	OUTLET @ 50" A.F.F.	O/K	G	G/P	G/P	-
K31A	SS VEG. PREP SINK/TABLE	CUSTOM FABRICATED	S.S. PREP SINK 72", W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF (FISHER MODEL 34398)	O/K	G	G/P	G/P	-
K34A	DOUBLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE - #TM-52F	W/ CASTERS AND 6 SHELVES (EF-48)	O/K	G	G	G	-
K34B	SINGLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE - #TM-52F	W/ CASTERS AND 6 SHELVES (EF-24)					
K35A	WALK-IN COOLER	KOLPAK 8'-8 1/2" x 17'-4" x 9'-6 1/4"	CONTRACTOR INSTALLS METAL CAP & ELECT. CONNECT (INCLUDE DR. STOPS @ CLSR. HT.)	O/K	K	K	K/E	-
K39	COOLER SHELVING	METRO/METROSEAL 3	W/ CASTERS; (5) SHELVES (DUNNAGE ON BOTTOM)	O/K	G	N/A	N/A	-
K44	BUN RACKS, 20 SHELVES	NEW AGE MODEL #6331	INCLUDES CASTERS	O/K	G/K	K/E/P	N/K	-
K45B	ICE MAKER	MANITOWOC #SY-1894N	ICE BIN: FOLLETT CORP. #SG-SERIES - FILTER: MANITOWAC ARCTIC PURE AR-40000	O/K	G/K	K/E/P	N/K	-
K46	DISH TABLE W/ 3 COMP. SINK	CUSTOM FABRICATED	INCLUDES SCRAP SINK, FAUCETS, SPRAYER AND STANDOFF (FISHER MODEL 2110-WB, 13269)	O/K	G/P	K/E/P	K	-
K48	DISHWASHER SANITIZER	JACKSON/CONSERVER XL LOW-TEMP	CONTRACTOR TO CONNECT ELECTRICAL AND DRAIN	O/K	G/P	K/E/P	N/A	-
K50	SS CLEAN DISH TABLE	CUSTOM FABRICATED - 40" LONG		O/K	G/P	P/E	N/A	X
K54	DRY STORAGE SHELVING	METRO/SUPER ERECTA	REFER INSTALLATION INSTRUCTIONS; 24"DP. x 48"W.	O/K	G	N/A	N/A	-
K54A	DRY STORAGE SHELVING	METRO/SUPER ERECTA	REFER INSTALLATION INSTRUCTIONS; 24"DP. x 36"W.	O/K	G	N/A	N/A	-
K57	30" STAINLESS STEEL SHELF	NEW AGE - #1126A	MOUNT 5'-2" A.F.F. - PROVIDE BLOCKING IN WALL	O/K	G	N/A	N/A	X
K58	60" STAINLESS STEEL SHELF	NEW AGE - #1127A	MOUNT 5'-2" A.F.F. - PROVIDE BLOCKING IN WALL	O/K	G	N/A	N/A	X
K62	MOP SINK	FIAT - #TSB-200	REFER TO PLUMBING SCHEDULE	O/K	G	N/A	N/A	X
K63	HAND SINK W/ FAUCET	ADVANCE TABCO #7PS-50	W/ WRIST BLADES, SOAP, AND TOWEL DISPENSERS - REFER TO PLUMBING SCHEDULE	O/K	G/P	P	G	X
K64	COTTON CANDY MACHINE	GOLD METAL PRODUCTS #3008-ED	INCLUDES SS BASE GOLD MEDAL/3036 AND UNIFLOSS TOP HALF 3035 W/ CASTERS	O/K	G	N/A	G	-
K67	CHEMICAL STORAGE CABINET	KELMAX EQUIPMENT #CSC 1836	MOUNT ON WALL NEXT TO MOP SINK 5'-6" A.F.F. HOLD ECOLAB TIGHT BELOW CABINET, SEE ELEVATIONS	O/K	G	N/A	N/A	X
K70	STORAGE RACK	METRO/METROSEAL 3	18"x48" W/ CASTERS & 6 SHELVES	O/K	G	N/A	N/A	-
K71	AIR CURTAIN	MARS AIR DOORS - #42CH	ABOVE DELIVERY KITCHEN DOOR	O/K	G/E	G/E	G	X
K80	UTILITY CART	METRO MODEL #BC2030-34BY	UTILITY CART W/ CASTERS	O/K	G	N/A	N/A	-
K82	COFFEE SHELF	CUSTOM FABRICATED	21"D x 18"W x 24"H - MOUNT AT 38" A.F.F.; POWER AND WATER AT 34" A.F.F.	O/K	G	N/A	N/A	-
K86	ORDER HOLDER	SANJAMAR #CK6548A		O/K	G	N/A	N/A	-
K99	BUMPER RAILS	BOSTON BUMPER SYSTEM SERIES #2000	PROVIDE END CAPS & CORNER ACCESSORIES AS REQUIRED	O/K	G	N/A	N/A	X
K102	EMPLOYEE STOOLS	GARY PLATTE MODEL #9051	3 EA	O/K	G	G	N/A	-
K107	DISHTABLE SHELVING	EAGLE GROUP MODEL #605380	WALL MOUNTED ABOVE DRAINBOARD	O/K	G	N/A	N/A	X

FIXTURE AND MISCELLANEOUS EQUIPMENT SCHEDULE

O - OWNER K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
P - PLUMBING G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
X01	SODA/ICE DISPENSER	"COKE" VENDOR	G.C. TO SUPPLY POWER	V	V	V	V	-
X02	CARBONATOR W/ SS SHELF	"COKE" VENDOR	G.C. TO SUPPLY POWER, WATER OUTLET + 80"	V	V	V	V	X
X03	BAG & BOX RACK	"COKE" VENDOR	SET UNDER CARBONATOR	V	V/G	V	V	-
X04	TEA DISPENSER	"COKE" VENDOR	BLACK BOX FILTER MOUNTED NEXT TO CARBINATOR	V	V	V	V	-
X05	BULK CO2 TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK	V	V/G	V	V	X
X06	FILE CABINET	-	FOUR DRAWER FILE CABINET IN MANAGERS OFFICE & TWO DRAWER FILE CABINET IN TECH OFFICE	O	G	N/A	N/A	-
X07	CASH REGISTER SYSTEM	IBM	PROVIDE DEDICATED POWER & PHONE OUTLETS (INCLUDING KITCHEN PANTRY)	O	G	N/A	N/A	-
X08	TOKEN DISPENSERS	SPT	PROVIDE POWER	O	O	O	O	-
X09	AIR COMPRESSOR W/ DRYER	INGERSOL RAND MODEL #2475N5	SEE PLUMBING DWGS.	O	V	V	V	-
X10	CONDIMENT STANDS	PROGRESSIVE/CUSTOM	-	G	O	O	N/A	-
X11	MOP & BROOM HANGERS	EDON J295	WALL MOUNTED, SEE INTERIOR ELEVATIONS	O	G	N/A	N/A	X
X12	ECOLAB SYSTEM	ECOLAB	MOUNTS @ DISHWASHER & MOP SINK (G.C. TO COORDINATE)	O	V	V	V	X
X13	CAN OPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	O	G	N/A	N/A	-
X14	KNIFE SHARPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	O	G	N/A	N/A	-
X15	MARKETING LIGHT BOX	STB	WALL MOUNTED, SEE INTERIOR ELEVATIONS - 2 EA FOR LARGE MARKET LOCATION / PW	O	G/V	E	N/A	-
X16	MENU BOARD	CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS	O	G/E	E	N/A	X
X17	COMPUTER MONITOR	-	WALL MOUNTED ABOVE COUNTER - PROVIDE BLOCKING IN WALL	O	G/E	E	N/A	X
X18	EMPLOYEE LOCKERS	-	PROVIDE BLOCKING AS REQUIRED.	O	G	N/A	N/A	X
X19	TECH ROOM TOOL BOX	CRAFTSMAN STANDARD BOX		O	G	N/A	N/A	-
X20	MANAGER'S CONTROL PANEL	-	MOUNT AT 50" A.F.F.	O	G/E	E	N/A	-
X21	MANAGER'S SECURITY MONITOR	-		O	G/E	E	N/A	-
X22	SAFE	McGUNN #QD1021	REQUIRES ELECTRICAL OUTLET 18" A.F.F.	O	G	N/A	N/A	-

MILLWORK

K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
M01	FRONT COUNTER ASSEMBLY	MIDWEST/CUSTOM	INCLUDES: ORDER, SALAD, AND GIFT COUNTERS SEE DETAILS	O/M	G/E	G/E/P	N/A	-
M02	CUP CADDY	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X
M03	PRIZE CADDY & SHELVING	MIDWEST/CUSTOM	INCLUDES: SLATWALL HANGERS	O/M	G	N/A	N/A	X
M04	SNEEZE GUARD	MIDWEST/CUSTOM	OVERHANGS RECESSED CROCKS, SEE DETAIL/POWER REQUIRED	O/M	G	N/A	N/A	-
M05	BEVERAGE COUNTER	MIDWEST/CUSTOM	SS TOP, SEE DETAIL	O/M	G	P/G	N/A	-
M06	MANG'R DESK W/CABINETS	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	G/E	N/A	X
M07	EMP. BRK. CNTR. & UPPER CAB.	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS/POWER REQUIRED FOR DVD	O/M	G	N/A	N/A	X
M08	EMP. COAT RACK/STO. UNIT	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.1 FOR LOCATIONS	O/M	G	N/A	N/A	X
M09	TECH ROOM WORK BENCH W/ WALL CABINET	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X
M10	TECH ROOM SHELVING, 12" DEEP	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X

REGISTRATION SEAL

FREDERICK J. GOGLIA REGISTERED ARCHITECT No. 2993 ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: KF
ISSUE DATE: 04/07/10

KITCHEN EQUIPMENT PLAN

K1.0

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1-Specification sections, apply to work of this section.

1.2 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary for completion of all concrete work including, but not necessarily limited to, the following:

1. Formwork, complete with required shoring, re-shoring, bracing, and anchorage.
2. Reinforcing, complete with required supports, spacers, and related accessories.
3. Cast-in-place concrete including, grade beams, walls, slabs-on-grade, and exterior flatwork.
4. Finish and cure for floor slabs and exterior flatwork.
5. Miscellaneous concrete work such as interior and exterior curbs.

B. Related Sections:

1. Grouting Under Steel Bearing Plates: Section 03600 Grout
2. Corrugated Metal Forming: Section 05300 Metal Decking
3. Caulking of Concrete Slab Control Joints: Section 07920 Joint Sealers

C. Work Furnished But Not Installed:

D. Work Installed But Furnished by Others:

1. Anchor Bolts, Bearing Plates, Embed Plates and Angles Cast Into Concrete: Furnished under Sections 05120 Structural Steel and 05500 Metal Fabrications.
2. Interior and Exterior Guard Posts, etc.: Furnished under Section 05500 Metal Fabrications.
3. Railing Sleeves: Furnished under Section 05500 Metal Fabrications.

1.3 QUALITY CONTROL

A. Requirements of Regulatory Agencies: The Work under this section shall be subject to all applicable provisions of the state and local building and safety codes.

B. Reference Standards: Comply with following standards except where more stringent requirements are shown or specified:

1. ACI 301, "Specification for Structural Concrete for Buildings." Contractor shall make a copy of ACI 301 available at the project field office for the duration of the project.
2. Concrete Reinforcing Steel Institute (CRSI), "Manual of Standard Practice."
3. ACI SP-66, "ACI Detailing Manual"
4. ACI SP-15, "ACI Field Reference Manual"

C. Design Criteria:

1. Concrete: See General Notes on Structural Drawings and ACI 301, Chapter 3.
2. Formwork Design: The Contractor shall assume all responsibility for the safety of the formwork and shall provide all necessary design, construction, materials, and maintenance to produce the required concrete work safely. Design all formwork to have sufficient camber to maintain the tolerances specified. Strength shall be sufficient to compensate for the weight of the fresh concrete and a construction live load of 50 psf minimum.

D. The Contractor is responsible for quality control, including workmanship and materials furnished by his subcontractors and suppliers.

1. Inspection or testing does not relieve the Contractor of his responsibility to perform the Work in accordance with the Contract Documents.
2. Workmanship: The Contractor is responsible for and shall bear the cost of correcting concrete work which does not conform to the specified requirements including, but not limited to, strength, tolerances, and finishes. Correct deficient concrete by means acceptable to the Architect and Structural Engineer. The cost of extra work incurred by the Architect and Structural Engineer to approve corrective work shall be borne by the Contractor.

E. Record of Work: A record shall be kept by the General Contractor listing the time and date of placement of all concrete for the structure. Such record shall be kept until the completion of the project and shall be available to the Architect and Structural Engineer for examination at any time.

F. All concrete batch trip tickets will be collected and retained by the Contractor. Concrete batch trip tickets shall contain information specified in ASTM C94, Paragraph entitled "Batch Ticket Information," including items 15.2.1 through 15.2.8. Batch trip ticket shall also show the total amount of water in the mix as batched (including water present in the aggregate before batching) and the amount of water required by the design mix proportions.

1.4 QUALITY ASSURANCE

A. An Independent Testing Laboratory acceptable to the Architect and Structural Engineer shall provide testing services specified in Section 01451.

B. The Architect, Structural Engineer, and Independent Testing Laboratory shall be offered uninterrupted access to the ready-mix batching plant at all time that the work is in progress.

C. Provide the Testing Agency with the following:

1. Incidental labor required to facilitate testing.
2. Minimum one day's advance notice when concrete is to be placed.
3. Storage facilities for concrete test cylinders.
4. Materials, samples, and access to materials as required for testing.
5. Reimbursement of costs for testing and inspection resulting as a consequence of the following:
   a. Work not in compliance with the Contract Documents.
   b. Testing requested by Contractor or Subcontractor such as additional cylinders for early breaks, etc.
   c. Testing to verify the adequacy of work done, without prior notice, without proper supervision, or contrary to standard construction practice.

1.5 SUBMITTALS

A. All submittals in accordance with Section 01330 – Submittal Procedures.

B. Mix Designs:

1. Submit substantiating data for each concrete mix design contemplated for use to the Architect and Structural Engineer not less than three weeks prior to first concrete placement. Data for each mix shall, as a minimum, include the following:
   a. Mix identification designation (unique for each mix submitted).
   b. Statement of intended use for mix.
   c. Mix proportions, including all admixtures used.
   d. Manufacturer's data and/or certifications verifying conformance of all mix materials, including admixtures, with specified requirements.
   e. Wet and dry unit weight.
   f. Entrained air content.
   g. Design slump.
   h. Required average strength qualification data per ACI 301 4.2.3.1, 4.2.3.2 and 4.2.3.3. Submit separate qualification data for each production facility which will supply concrete to the project.
   i. Average strength qualification data (trial mix data or field test data per ACI 301 4.2.3.4). When field test data is used to qualify average strength, submit separate qualification data for each production facility which will supply concrete to the project.
   j. Field test data submitted for qualification of average strength under ACI 301 4.2.3.1, 4.2.3.2 and 4.2.3.3 shall include copies of the Concrete Testing Agency's reports from which the data was compiled.
   k. Submit one copy of a representative concrete batch trip ticket containing information as specified herein.
2. Separate design mixes are required for each strength and class of concrete, each change in type and/or quantity of mix materials including admixtures, each change in slump limits, and each change in entrained air content.

C. Submit shop drawings for fabrication, bending and placement of concrete reinforcement. Comply with ACI Detailing Manual (SP 66). Provide 1/4" scale elevations of all walls 4'-0" and taller with all reinforcing and openings shown. Include special reinforcement required at openings through concrete structure. Include all accessories specified and required to support reinforcement. Obtain from General Contractor location of proposed construction joints and show them on the shop drawings.

D. Product Data:

1. Submit product data with application and installation instructions for proprietary materials and items including admixtures, patching compounds, epoxies, grouts, sealer, joint systems and others as required by the Architect.
2. Submit curing compound product data and verification of its compatibility with other finish materials and surface treatments required.

E. Substitutions: Any request for product substitution must be submitted for acceptance, with all necessary documentation prior to time of bid. No requests for substitutions will be considered after bids have been received.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery of Materials: Deliver materials in manufacturer's unopened containers fully identified with manufacturer's name, trade name, type, class, grade, size, and color.

B. Storage of Materials: Store materials in unopened containers. Store off ground and under cover, protected from damage.

C. Reinforcing: Unload and store reinforcing bars so they will be kept free of mud and damage.

D. Concrete:

1. Hauling Time: Discharge all concrete transmitted in a truck mixer, agitator, or other transportation device not later than 1-1/2 hours or 300 revolutions of the drum after the mixing water has been added, whichever is earliest when concrete temperature is less than 85 degrees. The concrete shall be discharged no later than 1-1/4 hours from time of adding mixing water when concrete temperature is between 85 and 90 degrees. Concrete which exceeds 90 degrees shall not be allowed on the project.
2. Extra Water: Deliver concrete to the job in exact quantities required by the design mix. Should extra water be required before depositing the concrete, the Contractor's Superintendent shall have sole authority to authorize the addition of water. Any additional water added to the mix after leaving the batch plant shall be indicated on the trip ticket and signed by the person responsible. Where extra water is added to the concrete, it shall be mixed thoroughly for 30 revolutions of the drum at mixing speed. Water may be added at the site only once to each batch and shall be limited to 2 gallons per cubic yard of concrete. For exterior flatwork mixes, water addition at the site is only permitted if a water/cement ratio of 0.45 for the mix is not exceeded.

1.7 JOB CONDITIONS

A. Environmental Requirements:

1. Cold Weather Placement:
   a. When depositing concrete after the first frost or when the mean daily temperatures are below 40 degrees F., follow recommendations of ACI 306 as modified herein. Maintain concrete temperature at a minimum of 55 degrees F. for sections having a minimum dimension of less than 12", or 50 degrees F. for sections having a minimum dimension of 12" or greater, for not less than 72 hours after depositing.
   b. The specified non-chloride accelerator or high-early strength Type III cement may be used when accepted by the Structural Engineer. Do not place concrete without approval of the Structural Engineer on days when temperature at 9:00 a.m. is below 30 degrees F. Job-cured cylinders for verification of strength and/or the adequacy of the Contractor's protective methods may be required by the Structural Engineer.
   c. Under no circumstances shall concrete mix ingredients be frozen, contain ice or snow, or be placed on earth which is frozen, muddy or contains frozen particles.
2. Hot Weather Placement:
   a. When depositing concrete in hot weather, follow recommendations of ACI 305 as modified herein. The temperature of concrete at time of placement shall not exceed 90 degrees F. Protect to prevent rapid drying. Start finishing and curing as soon as possible.
   b. When the air temperature is expected to exceed 90 degrees F., the Contractor shall obtain acceptance from the Structural Engineer of the procedures to be used in protecting, depositing, finishing, and curing the concrete. The specified water reducing retarding admixture may be used upon acceptance of the Structural Engineer. The use of continuous wetting or fog sprays may be required by the Structural Engineer for 24 hours after depositing.
   c. No exterior flatwork shall be placed when the outside wind velocity exceeds 30 miles per hour unless temporary barriers or windbreaks are provided.

B. Protection: Protect newly finished slabs from rain, snow or water damage. Protect finished slabs from mortar leakage from pouring of concrete above. Cover masonry walls and other materials with polyethylene or otherwise protect from damage due to pouring of concrete.

1.8 ALTERNATES

Contractor shall provide price for interior slab-on-grade and exterior flatwork concrete mixes as specified herein with welded wire fabric reinforcement added in lieu of fibrous reinforcement.

PART 2 - PRODUCTS

2.1 GENERAL

All materials in accordance with ACI 301 unless amended or superseded by requirements of following articles or General Notes on the structural drawings.

2.2 FORM MATERIALS AND SYSTEMS

A. Forms for Exposed Finish Concrete: Unless otherwise indicated, construct formwork for exposed concrete surfaces with plywood, metal, metal-framed plywood faced or other acceptable panel-type materials, to provide continuous, straight, smooth, exposed surfaces. Furnish in largest practicable sizes to minimize number of joints and to conform to joint system shown on drawings. Provide form material with sufficient thickness to withstand pressure of newly-placed concrete without bow or deflection.

B. Forms for Unexposed Finish Concrete: Form concrete surfaces which will be unexposed in finished structure with plywood, lumber, metal, or other acceptable material. Provide lumber dressed on at least two edges and one side for tight fit.

C. Slab Construction Joint Forms: Galvanized steel with continuous tongue and groove. Subject to compliance with requirements, provide one of the following:

"Keyed Kold- Burke Co.
"Super Screed" - Vulcan Metal Products.

D. Slab Control Joint Forms: Molded plastic material for insertion into slab surface during finishing. Configuration to provide joint depth of not less than 1/4th of the slab thickness. Subject to compliance with requirements, provide one of the following:

"Zipcap" - Greenstreak Plastic Products Co.
"Crack Inducer" - Progress Unlimited, Inc.
"Kold-Seal Zipper Strip" - Vinylex Corp.

E. Chamfer Strips: 3/4", 45 degree job-cut wood

F. Form Coatings: Provide commercial formulation form-coating compounds that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.

2.3 REINFORCING MATERIALS

A. General: Sizes, types, grade or yield strengths as indicated on the drawings. Use 60,000 psi yield strength if not otherwise indicated. Use reinforcing conforming to ASTM A706 where welding of reinforcing is required unless otherwise indicated. Provide uncoated finish unless otherwise indicated.

B. Deformed Bars: ASTM A615 plus supplementary requirement (SI), Deformed Billet Steel Bars or ASTM A706, Low-Alloy Steel Deformed Bars unless otherwise indicated.

C. Welded Wire Fabric: Mesh size and gauge as indicted on the drawings. Conform to ASTM A185, plain in flat sheets or coiled rolls.

D. Tie Wire: Tie wire shall be No. 16 American Wire Gauge or heavier, black annealed.

E. Supports for Reinforcement: Provide supports for reinforcement including bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcing bars and welded wire fabric in place within specified tolerances. Use wire bar-type supports complying with CRSI, Class 1 or 2, unless otherwise acceptable.

1. Use supports with sand plates or horizontal runners for slab-on-grade where base material will not support chair legs.
2. All materials that come in direct contact with coated bars, such as slab bolsters, high chairs, tie wires, etc., shall be plastic coated.

2.4 CONCRETE MATERIALS

A. Cementitious Materials:

1. General: Provide materials of the same brand or source throughout the project unless otherwise specified.
2. Portland Cement: ASTM C150 Type I/II
3. Fly Ash: ASTM C618, Class F or C.

B. Aggregates:

1. General: Provide aggregates from the same source throughout the project unless otherwise specified.
2. Normal Weight Aggregate: ¾" maximum size aggregate conforming to ASTM C33 and containing no deleterious substances which cause surface spalling. Use pea gravel (1/4" to 3/8" aggregate) only when acceptable to the Architect and Structural Engineer.

C. Water: Potable

D. Admixtures:

1. General: Unless specified, no admixtures may be used without specific approval of the Architect and Structural Engineer.
2. Prohibited Products: Calcium chloride or admixtures containing more than 0.05% chloride ions or thiocyanates are not permitted.
3. Air-Entraining Admixture: ASTM C260. Subject to compliance with requirements, provide one of the following:

"Air Mix" - Euclid Chemical Co.
"Darex ARA" - W. R. Grace
"MB-VR" or "MB-AE" - Master Builders

4. Water Reducing Admixture: ASTM C494, Type A. Subject to compliance with requirements, provide one of the following:

"Eucon WR-75" - Euclid Chemical Co.
"Pozzolith 344N" - Master Builders
"Plastocrete 160" - Sika Chemical Co.

5. High Range Water Reducing Admixture (Superplasticizer): ASTM C494, Type F or G. Subject to compliance with requirements, provide one of the following:

"Eucon 37" - Euclid Chemical Co.
"Pozzolith 400N" - Master Builders
"Sikament" - Sika Chemical Co.

6. Non-Corrosive, Non-Chloride Accelerator: ASTM C494, Type C or E. The admixture manufacturer must have long term, non-corrosive test data (of at least a year's duration) using an acceptable accelerated corrosion test method such as electrical potential measurements. Subject to compliance with requirements, provide one of the following:

"Accelguard 80" - Euclid Chemical Co.
"Darex Set Accelerator" - W. R. Grace & Co.
"Pozzolith 555A" - Master Builders

7. Retarding Admixture: ASTM C494, Type D. Subject to compliance with requirements, use one of the following:

"Eucon Retarder 75" - Euclid Chemical Co.
"Daratard" - W. R. Grace & Co.
"LL 880" - Master Builders

8. Fibrous Reinforcement: ASTM C1116, 100% virgin polypropylene fibrillated fibers containing no olefin materials. Subject to compliance with requirements, provide one of the following:

"Fibermesh"
"Forta CR" - Forta Fiber, Inc.
"Grace Fibers" - W. R. Grace & Co.

9. Certification: Written certification of conformance to above requirements will be required from all admixture manufacturers prior to mix design review by the Structural Engineer.

2.5 RELATED MATERIALS

A. Expansion Joints:

1. Interior Use or Exterior Use Where Sealants Are Specified: Bituminous saturated fiber conforming to ASTM D1751, 1/2 in. thickness. Provide manufacturer's certification of compatibility with specified sealants where required.
2. Exterior Use Where Sealants Are Not Specified: Pre-molded asphalt and fiber conforming to ASTM D994, 1/2 in. thickness.

B. Curing Compounds:

1. Curing and Sealing Compound: Clear styrene acrylate type, 30% solids content minimum, and have test data from an independent laboratory indicating a maximum moisture loss of 0.030 grams per sq. cm. when applied at a coverage rate of 300 sq. ft. per gallon. Manufacturer's certification required. Subject to compliance with requirements, provide one of the following:

"Super-Rez Seal" or "Super Pliocure" - Euclid Chemical Co.
"Master Kure 30" - Master Builders

2. Dissipating Resin Compound: ASTM C309, Type i. The film must chemically break down in a two to four week period. Subject to compliance with requirements, provide one of the following:

"Kurez DR" - Euclid Chemical Co.
"Masterseal" - Master Builders
"Day-Chem Rez Cure (J-11-A)" – Dayton Superior Corp.

C. Absorptive Cover: Burlap cloth made from jute or kenaf, weighing approximately 9 oz. per sq.yd., complying with AASHTO M182, Class 2.

D. Moisture-Retaining Cover: One of the following, complying with ASTM C171:

Waterproof paper
Polyethylene film
Polyethylene coated burlap.

E. Clear Penetrating Sealer: Material suitable for application on horizontal surfaces containing not less than 20 percent siloxane or 40 percent silane in mineral spirits or alcohol based carrier. Provide certification of 90 percent chloride screen effectiveness when tested in accordance with the procedure of NCHRP Report No. 244, "Southern Climate Exposure" at manufacturer's recommended rate of application. Subject to compliance with requirements, provide one of the following:

"Concresive AEX 3142" - Adhesive Engineering Co.
"Chem-Treat BSM40" - Dynamit Nobel of America, Inc.
"Consolideck SX" - ProSoCo, Inc.

F. Underlayment Compound: Free-flowing, self-leveling, pumpable cementitious base compound. Subject to compliance with requirements, provide one of the following:

"Flo-Top" - Euclid Chemical Co.
"Pourcrete" - Master Builders
"LeveLayer 1" – Dayton Superior Corp.

G. Non-Shrink Non-Metallic Grout: See Section 03600 - Grout.

H. Polymer Adhesives: Material suitable for use on dry or damp surface, complying with ASTM C881, for use in all structural concrete repairs. Obtain prior approval of Structural Engineer as to methods and procedures.

1. Injection Epoxy: Subject to compliance with requirements, provide one of the following:

"Concresive 1380" - Adhesive Engineering Co.
"Fx-751 Hydro-Ester Low Modulus LV" - Fox Industries
"Sikadur 35, Hi Mod LV" - Sika Chemical Corp.

2. Latex Modified Mortar: Subject to compliance with requirements, provide one of the following:

9. Certification: Written certification of conformance to above requirements will be required from all admixture manufacturers prior to mix design review by the Structural Engineer.

2.5 RELATED MATERIALS

A. Expansion Joints:

1. Interior Use or Exterior Use Where Sealants Are Specified: Bituminous saturated fiber conforming to ASTM D1751, 1/2 in. thickness. Provide manufacturer's certification of compatibility with specified sealants where required.

2. Exterior Use Where Sealants Are Not Specified: Pre-molded asphalt and fiber conforming to ASTM D994, 1/2 in. thickness.

B. Curing Compounds:

1. Curing and Sealing Compound: Clear styrene acrylate type, 30% solids content minimum, and have test data from an independent laboratory indicating a maximum moisture loss of 0.030 grams per sq. cm. when applied at a coverage rate of 300 sq. ft. per gallon. Manufacturer's certification required. Subject to compliance with requirements, provide one of the following:

"Super-Rez Seal" or "Super Pliocure" - Euclid Chemical Co.
"Master Kure 30" - Master Builders

2. Dissipating Resin Compound: ASTM C309, Type i. The film must chemically break down in a two to four week period. Subject to compliance with requirements, provide one of the following:

"Kurez DR" - Euclid Chemical Co.
"Masterseal" - Master Builders
"Day-Chem Rez Cure (J-11-A)" – Dayton Superior Corp.

C. Absorptive Cover: Burlap cloth made from jute or kenaf, weighing approximately 9 oz. per sq.yd., complying with AASHTO M182, Class 2.

D. Moisture-Retaining Cover: One of the following, complying with ASTM C171:

Waterproof paper
Polyethylene film
Polyethylene coated burlap.

E. Clear Penetrating Sealer: Material suitable for application on horizontal surfaces containing not less than 20 percent siloxane or 40 percent silane in mineral spirits or alcohol based carrier. Provide certification of 90 percent chloride screen effectiveness when tested in accordance with the procedure of NCHRP Report No. 244, "Southern Climate Exposure" at manufacturer's recommended rate of application. Subject to compliance with requirements, provide one of the following:

"Concresive AEX 3142" - Adhesive Engineering Co.
"Chem-Treat BSM40" - Dynamit Nobel of America, Inc.
"Consolideck SX" - ProSoCo, Inc.

F. Underlayment Compound: Free-flowing, self-leveling, pumpable cementitious base compound. Subject to compliance with requirements, provide one of the following:

"Flo-Top" - Euclid Chemical Co.
"Pourcrete" - Master Builders
"LeveLayer 1" – Dayton Superior Corp.

G. Non-Shrink Non-Metallic Grout: See Section 03600 - Grout.

H. Polymer Adhesives: Material suitable for use on dry or damp surface, complying with ASTM C881, for use in all structural concrete repairs. Obtain prior approval of Structural Engineer as to methods and procedures.

1. Injection Epoxy: Subject to compliance with requirements, provide one of the following:

"Concresive 1380" - Adhesive Engineering Co.
"Fx-751 Hydro-Ester Low Modulus LV" - Fox Industries
"Sikadur 35, Hi Mod LV" - Sika Chemical Corp.

2. Latex Modified Mortar: Subject to compliance with requirements, provide one of the following:

"Concresive 3035 or 3036" - Adhesive Engineering Co.
"Euco Thin Coat" or "Euco Concrete Coat" - Euclid Chemical Co.
"Sikatop 121 or 122" - Sika Chemical Corp.

3. Epoxy Adhesive: Subject to compliance with requirements, provide one of the following:

"Concresive 1001-LPL or 3007" - Adhesive Engineering Co.
"Euco Epoxy #452 or 620" - Euclid Chemical Co.
"Sikadur 32 Hi-Mod" - Sika Chemical Corp.
"Sika Armitec 110" - Sika Chemical Corp. (concrete to concrete)

I. Epoxy Joint Filler: Three component, 100% solids epoxy compound, with a minimum shore D hardness of 50. Subject to compliance with requirements, provide one of the following:

"Concresive 1064" - Adhesive Engineering Co.
"Euco Epoxy #600 or 700" - Euclid Chemical Co.
"Sikadur Lo-Mod" - Sika Chemical Corp.

J. Bonding Compound: Polyvinyl acetate, rewettable type. Interior usage only. Subject to compliance with requirements, provide one of the following.

"Euco Weld" - Euclid Chemical Co.
"Weldcrete" - Larsen Co.
"Sikabond" - Sika Chemical Corp.

K. Bonding Admixture: Acrylic latex, non-rewettable type. Interior or exterior usage. Subject to compliance with requirements, provide one of the following:

"Concresive 3033" - Adhesive Engineering Co.
"SBR Latex" or "Flex-Con" - Euclid Chemical Co.
"Daraweld C" - W.R. Grace Co.

2.6 PROPORTIONING AND DESIGN OF MIXES

A. Strength: Proportion mixes to attain 28 day minimum compressive strength of 4500 psi.

B. Durability: Concrete Exposed to Weather or Freeze-Thaw Cycles shall meet the requirements of ACI 301. Water-cement ratio shall not exceed 0.45 by weight.

C. Slump Limits: Slump of concrete, measured at point of placement, shall fall within the following limits:

1. Concrete Containing HRWR (Superplasticizer): 8 inches maximum unless otherwise directed by the Architect or Structural Engineer.
2. All Other Structural Concrete: 2 to 4 inches maximum.

D. Minimum Cementitious Materials Content (Portland Cement plus Fly Ash):

1. Interior Slabs on Grade: 517 lbs. per cu. yd. (cement only - fly ash not permitted)
2. Exterior Flatwork: 564 lbs. per cu. yd. with a maximum water-cement ratio of 0.45.
3. All Other Structural Concrete: 470 lbs. per cu. yd. with a maximum water-cement ratio of 0.52.

E. Fly Ash/Cement Replacement: Fly ash, in proportions not greater than 20% by weight of the total amount of cementitious materials, may be used when accepted by the Structural Engineer. Cement content and/or water-cement ratio for mixes containing fly ash shall be based on the total weight of cementitious materials (Portland Cement plus fly ash).

F. Selection of Proportions:

1. Mix Design: Cost of concrete mix design by Contractor.
2. Selection of Proportions: Use method of ACI 301-96 4.2.
   a. Field test records used for documentation of the average strength produced by a proposed mix in accordance with ACI 301 4.2.3.2 shall, in addition to the requirements there listed, comply with the following:
      (1) The test record shall represent production concrete from a single design mix, produced during the past year, and may be composed of 30 or more consecutive tests.
      (2) The test record shall represent concrete made with identical materials and proportions (including admixtures) to the proposed mix.
      (3) The test record shall represent concrete proportioned to produce the maximum slump allowed by these specifications, and for air-entrained concrete, within +/- 0.5 percent of the maximum air content allowed.
   b. Mixes proportioned on the basis of trial mixtures shall meet the provisions of ACI 301 4.2.3.4.
   c. Flatwork mixes shall contain fibrous reinforcement placed in the concrete at the batch plant at a rate of 1.5 pounds per cubic yard of concrete.

PART 3 - EXECUTION

3.1 GENERAL

A. Perform concrete work in accordance with ACI 301 except as specified herein and on the drawings.

B. Use ready-mixed concrete conforming to ASTM C94; no job-mixed concrete allowed.

C. No concrete shall be placed which has reached a temperature of 90 degrees.

3.2 CONCRETE CAST ON EARTH

A. Foundation Bearing Surface: Excavate to smooth, level surface in undisturbed natural soils unless otherwise indicated or accepted by the Soils Engineer.

B. Slab Subgrade: Underslab surfaces shall be fine graded to smooth, level surface prior to installation of slab forms.

3.3 FORMWORK

A. General:

1. Design, construct, brace, and maintain formwork in accordance with ACI 301 and ACI 347 as modified herein.
2. Fabricate forms for easy removal. Provide crush plates or wrecking plates where stripping may damage concrete surfaces. Kerf wood inserts for forming keyways, reglets, recesses, and the like, to facilitate removal.
3. Provide temporary openings where interior area of formwork is inaccessible for clean out, for inspection before concrete placement, or for placement of concrete. Securely brace temporary openings and seal to forms to prevent loss of concrete mortar.

B. Preparation of Form Surfaces:

1. Clean reused forms of concrete matrix residue, repair and patch as required to return forms to acceptable surface condition.
2. Coat contact surfaces of forms with specified form-coating compound before reinforcement is placed in conformance with manufacturer's instructions.
3. Thin form-coating compounds only in conformance with manufacturer's instructions. Do not allow excess form-coating material to accumulate in forms or to come into contact with concrete surfaces against which fresh concrete will be placed.

C. Chamfer Strips: Install 45 degree chamfer strips at exposed outside corners as shown on the Drawings.

D. Inspection of Formwork: All formwork surfaces that will provide the finish surface of exposed concrete must be approved by the Architect before depositing concrete.

3.4 PLACING REINFORCEMENT

A. General:

1. Comply with Concrete Reinforcing Steel Institute's "Recommended Practice for Placing Reinforcing Bars," and as herein specified.
2. Clean reinforcement of loose rust and mill scale, earth, ice, and other materials which reduce or destroy bond with concrete.
3. Accurately position, support, and secure reinforcement against displacement by construction or concrete placement operations with metal chairs, runners, bolsters, spacers, hangers, or other means acceptable to the Structural Engineer. On vertical formwork, use approved bar chairs or spacers as required to maintain proper concrete cover and bar position.
4. Install reinforcement to tolerances given in ACI 117.
5. Install welded wire fabric in the longest lengths practical. Lap adjoining pieces at least one full mesh and wire together. Offset end laps in adjacent widths to prevent continuous laps.

B. Welding of Reinforcement: Welding of reinforcing bars not permitted except where specifically indicated. Protect exposed bars intended for bonding with future construction from corrosion by providing adequate covering.

C. Field Bending of Reinforcement: Reinforcement partially embedded in concrete shall not be field bent except as shown on the drawings or specifically permitted by the Structural Engineer.

D. Inspection of Reinforcement: Completed installation of concrete reinforcement must be accepted by the Testing Agency before depositing concrete.

3.5 INSTALLATION OF EMBEDDED ITEMS

A. General

1. Coordinate work with requirements of other trades and notify Architect and Structural Engineer of all conflicts and nonconforming conditions.
2. Coordinate the requirements for installation of embedded items specified and furnished in other sections of the specifications. Obtain templates and instructions for setting embedded items.
3. Do not install sleeves in concrete slabs or grade beams except where shown on the structural drawings or approved by the Architect and Structural Engineer.

B. Embedded Pipes and Conduits: Conform to requirements of ACI 318 6.3.

C. Anchor Bolts, Inserts, Form Blockouts, and other items built into the concrete shall be securely fastened to formwork or held in place with templates. Insertion into concrete after casting is not allowed.

3.6 JOINTS

A. Construction Joints in Formed Elements:

1. General: Locate and install construction joints as indicated on the drawings or, if not shown on drawings, locate so as not to impair strength or appearance of the structure. Submit construction joint locations not shown on drawings to Architect and Structural Engineer for acceptance.
2. Keyways: Provide keyways as detailed on the drawings. Where not detailed, provide 1-1/2" minimum depth continuous keyways in all construction joints in slabs and intermittent keyways in walls.
3. Place construction joints in the center one-third of spans unless indicated otherwise. Continue reinforcement across construction joints. Submit construction joint locations not shown on the drawings for Architect's and Structural Engineer's acceptance.

B. Joints in Slabs on Ground:

1. Construction Joints: Form joints as shown on the drawings with specified construction joint form.
2. Control (Contraction) Joints: Construct joint by saw cutting or with specified slab control joint form to form panels of patterns as shown. Make saw cuts as soon as possible after placing concrete without dislodging aggregate and to a depth of 1/4 of the slab thickness.
3. Isolation Joints: Separate slabs from vertical surfaces with specified expansion joint material unless otherwise shown on the drawings.
4. Interior Slabs to Receive Floor Covering: Construct slabs in as large a placement area as practical. Locate construction joints on column center lines. Provide control joints at column centerlines and at intervals noted.
5. Exposed Interior Slabs: Locate construction joints on column center lines. Provide control joints at column centerlines and at intervals noted.

3.7 CONCRETE PLACEMENT

A. Preplacement Inspection: Formwork installation, reinforcing steel placement, and installation of all items to be embedded or cast-in to be verified by the Contractor prior to placement. Reinforcing steel placement shall be inspected and approved by the Owner's Independent Testing Agency inspector prior to concrete placement.

B. General: Comply with ACI 301, ACI 304, and as herein specified.

C. Do not place concrete in free-standing water, over ice, or on frozen subgrade.

D. Conveying: Convey concrete from the mixer to point of deposit without segregation.

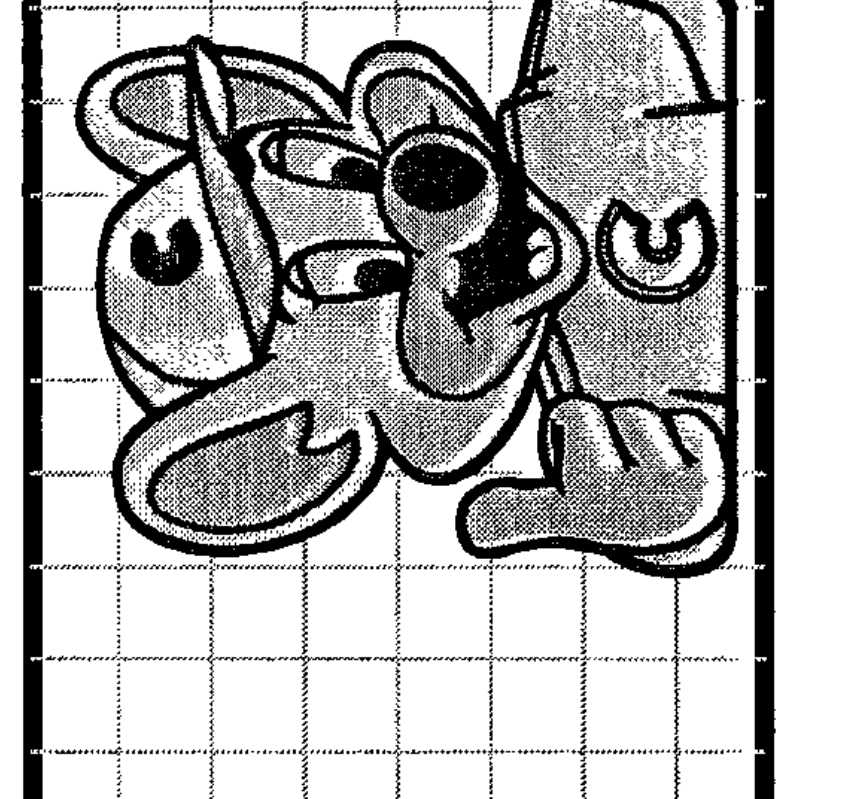
E. Placing:

1. Wet exposed subgrade, masonry filler units, previously placed concrete and uncoated wood forms immediately prior to placing concrete (except during freezing temperatures).
2. Deposit concrete continuously or in layers of such thickness that no concrete will be placed on concrete which has hardened sufficiently to cause the formation of seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as herein specified. Deposit concrete as nearly as practicable to its final location to avoid segregation.

REGISTRATION SEAL

REGISTERED ARCHITECT
FREDERICK J. GOGLIA
No. 2395
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com



CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

STRUCTURAL SPECIFICATIONS

SO.1

DIVISION 3 - CONCRETE (CONT.)

3. Placing Concrete in Forms:
   - a. Deposit concrete in forms in horizontal layers not deeper than 24" and in a manner to avoid inclined joints. Where placement consists of several layers, place each layer while preceding layer is still plastic to avoid cold joints.
   - b. Guide the flow of concrete in walls and columns for vertical drop between the reinforcing. Free fall, except in walls and columns, shall not exceed five feet. Free fall in walls and columns shall not exceed 10 feet without prior acceptance by Structural Engineer.

4. Placing Concrete Slabs:
   - a. Deposit and consolidate concrete slabs in a continuous operation, within limits of construction joints, until the placing of a panel or section is completed.
   - b. Continuous intermediate screed strips at intervals not greater than 15 feet set prior to concrete placement are required for slabs cast over metal deck. Place screeds along beam lines. Set screeds and adjust as necessary to achieve proper slab elevation and thickness, allowing for beam camber and deflection.

F. Consolidating:

1. Maintain one standby vibrator for every three vibrators used.

2. Consolidate placed concrete by internal vibrating equipment with a minimum frequency of 7000 rpm, supplemented by hand-spading, rodding, or tamping. Use equipment and procedures for consolidation of concrete in accordance with ACI 309.

3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations not farther than visible effectiveness of machine. Place vibrators to rapidly penetrate placed layer and at least 6" into Preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing segregation of mix.

4. Consolidate concrete during placing operations so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.

3.8 FINISH OF FORMED SURFACES

A. Definitions: Refer to ACI 301, 5.3.3, for formed surface finish definitions.

B. Provide formed surface finishes as defined on the Architectural drawings and/or as specified below:

1. Concealed Concrete Foundation Walls:

   Rough Form Finish: Texture imparted by form facing material, with tie holes and defective areas repaired and patched, and all fins and other projections exceeding 1/4 inch removed.

2. Exposed Concrete Foundation Walls:
   - a. Smooth Form Finish: Use form material to impart smooth, hard, uniform texture, and arrange form panels in an orderly and symmetrical pattern with a minimum number of seams. Repair and patch defective areas and completely remove and smooth all fins and other projections.
   - b. Grout Rubbed Finish: Apply portland cement grout mixture of paint consistency, to scheduled surfaces. Mix with white portland cement in sufficient amount to match grout color to adjacent surfaces. Wet surfaces and apply grout uniformly. Rub surface with cork float or stone to fill all surface holes and indentations. Rub surface with clean burlap to remove any visible grout film. Keep surfaces damp during setting period. Complete any area in same day started, with limits of any area being natural changes in plane of finished surface.

3.9 SLAB SURFACE FINISHES

A. Definitions: Refer to ACI 301, 5.3.4 for definition of slab surface finishes.

B. Provide slab surface finishes as defined on the Architectural drawings and/ or as specified below:

1. General: Finish slabs to achieve a maximum 1/16" inch floor finish tolerance as measured by placing a freestanding 10 ft. straightedge anywhere on the slab, allowing it to rest upon two high spots, and measuring the gap at any point between the straightedge and the floor, within 72 hour after slab concrete placement.

2. Float Finish: Apply float finish to monolithic slab surfaces to receive trowel finish and other finishes as specified; slab surfaces to be covered with membrane or elastic waterproofing.
3. Trowel Finish: Apply a trowel finish to monolithic slab surfaces exposed to view and slab surfaces to be covered with resilient flooring, carpet, ceramic or quarry tile, paint, or another thin film-finish coating system.
4. Trowel and Fine Broom Finish: Where ceramic or quarry tile is to be installed with thin-set mortar, apply a trowel finish as specified, then immediately follow by slightly scarifying the surface with a fine broom.
5. Nonslip Broom Finish: Apply a nonslip broom finish to exterior concrete platforms, steps, and ramps, and elsewhere as specified in Section 02755 – Cement Concrete Paving.
6. In areas of floor drains, maintain floor level at walls and slope surface uniformly to drains at 1/8 inch per foot or as indicated.

3.10 CONCRETE CURING, PROTECTION AND SURFACE TREATMENTS

A. General:

1. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Maintain concrete with minimal moisture loss at a relatively constant temperature for the period necessary for hydration of the cement and hardening of concrete.

2. Curing shall commence as soon as free water has disappeared from the concrete surface after placing and finishing. The curing period shall be seven days for all concrete except high-early strength concrete which shall be cured for three days minimum, unless test cylinders, made and kept adjacent to the structure and cured by the same methods, are tested with the average compressive strength equal to 70% of the specified 28-day strength.

3. Curing shall be in accordance with ACI 301 procedures. Avoid rapid drying at the end of the curing period. During hot and cold weather, cure concrete in accordance with ACI 305 and ACI 306.

B. Curing Methods: Perform curing of concrete by moisture curing, by moisture-retaining cover curing, by curing compound, and by combinations thereof, as herein specified. The Contractor shall choose a curing method that is compatible with the requirements for subsequent material usage on the concrete surface.

1. Provide moisture curing by one of the following methods:
   - a. Keep concrete surface continuously wet by covering with water.
   - b. Continuous water-fog spray.
   - c. Covering concrete surface with specified absorptive cover, thoroughly saturating cover with water and keeping it continuously wet. Place absorptive cover to provide coverage of concrete surfaces and edges, with 4" lap over adjacent absorptive covers.

2. Provide moisture-cover curing as follows:
   - a. Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practical width with sides and ends lapped at least 3" and sealed by waterproof tape or adhesive.
   - b. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3. Provide curing and sealing compound to interior slabs with resilient flooring, carpet over cushion, or left exposed, and to exterior slabs, walks and curbs as follows:
   - a. Apply specified curing and sealing compound to concrete slabs as soon as final finishing operations are complete (within 30 minutes). Apply uniformly in continuous operation by power-spray or roller in accordance with manufacturer's directions. Recoat areas subjected to rainfall within three hours after initial application.
   - b. Maintain continuity of coating and repair damage during curing period.
   - c. Obtain Architect's acceptance for use of membrane curing compounds on surfaces which are to be covered with coating material applied directly to concrete, liquid floor hardener, waterproofing, dampproofing, membrane roofing, flooring (such as ceramic or quarry tile, glue-down carpet), painting, and other coatings and finish materials.

C. Curing Formed Surfaces: Where wooden forms are used, cure formed concrete surfaces, including undersides of beams, supported slabs and other similar surfaces by moist curing with forms in place for full curing period or until forms are removed. When forms are removed, continue curing by methods specified above for specified curing time.

D. Curing Unformed Surfaces:

1. Cure unformed surfaces, such as slabs, floor topping, and other flat surfaces by application of appropriate curing method.

2. Provide moisture curing for surfaces to receive penetrating sealer unless otherwise approved or directed.

3. Final cure concrete surfaces to receive liquid floor hardener or finish flooring by use of moisture-retaining cover, unless otherwise approved or directed.

3.11 FORM REMOVAL

A. Removal of Forms: Supplement and Modify ACI 301 as follows:

1. ACI 301, 2.3.2.4: Formwork not supporting weight of concrete such as sides of grade beams and similar parts of the work may be removed after cumulatively curing at not less than 50 degrees F. for 24 hours after placing the concrete provided:
   - a. The concrete is sufficiently cured to be undamaged by form removal.
   - b. Supplemental curing and protection is provided for exposed concrete surfaces.

3.12 REPAIR OF SURFACE DEFECTS

A. Formed Surfaces:

1. Superintendent shall observe concrete surfaces immediately upon removal of forms.

2. Modify or replace concrete not conforming to required lines, details, and elevations.
3. Repair or replace concrete not properly placed resulting in excessive honeycombing and other defects. Patch, repair, or replace exposed architectural finished concrete as directed by the Architect.

4. Patching of tie holes is required.

5. Repair defects in structural concrete elements as follows:
   - a. Deep Defects Exposing Reinforcing: Chip to sound concrete and clean thoroughly to removed all loose concrete and dust. Apply thin coat of specified epoxy adhesive. Form and pour, or dry pack with specified non-metallic, non-shrink grout, prior to development of tack-free condition of epoxy adhesive. Strip forms after grout has hardened and provide specified finish. Moist cure or apply specified clear curing and sealing compound immediately after finishing.
   - b. Defects Greater Than 1/2 Inch Depth Not Exposing Reinforcing: Chip, clean, and apply specified epoxy adhesive. Dry pack using specified non-metallic, non-shrink grout prior to development of tack-free condition of epoxy adhesive. Provide specified finish and cure as specified above.
   - c. Other equivalent repair procedures may be used subject to review and acceptance by the Architect and Structural Engineer.

B. Unformed Surfaces:

1. Test unformed surfaces, such as monolithic slabs, for smoothness and verify surface plane to tolerances specified for each surface and finish. Correct low and high areas as herein specified. Test unformed surfaces sloped to drain for trueness of slope, in addition to smoothness using a template having required slope.

2. Correct high areas in unformed surfaces by grinding or other methods acceptable to the Architect after concrete has cured a minimum of 14 days.

3. Correct low areas in unformed surfaces during or immediately after completion of surface finishing operations by cutting out low areas and replacing with fresh concrete. Finish repaired areas to blend with adjacent concrete. Where acceptable to the Architect and Structural Engineer, the specified underlayment compound, applied in accordance with the manufacturer's instructions, may be used.

4. Repair defective areas, except random cracks and single holes not exceeding 1" diameter, by cutting out and replacing with fresh concrete. Remove defective areas to sound concrete with clean, square cuts and expose reinforcing steel with a least 3/4" clearance all around. Dampen concrete surfaces in contact with patching concrete and apply specified bonding compound. Mix patching concrete of same materials to provide concrete of same type or class as original concrete. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.
5. Repair isolated random cracks and single holes not over 1" in diameter by dry-pack method. Groove top of cracks and cut out holes to sound concrete and clean of dust, dirt and loose particles. Dampen cleaned surfaces and apply specified bonding compound. Mix dry pack, consisting of one part Portland Cement to 2-1/2 parts fine aggregate passing a No. 16 mesh sieve, using only enough water as required for handling and placing. Place dry pack after bonding compound has dried. Compact dry pack mixture in place and finish to match adjacent concrete. Keep patched area continuously moist for not less than 72 hours.

3.13 TOLERANCES

A. Formed Surfaces and Building Lines: Conform to ACI 117.

B. Slab Finishing Tolerances:

1. Slope to Drain: 1/8 inch per foot or as noted on the Drawings.
2. After screeding, consolidating, and leveling concrete slabs, do not work surface until ready for floating. Begin floating when surface water has disappeared or when concrete has stiffened sufficiently to permit operation of power-driven floats, or both. Consolidate surface with power-driven floats or by hand-floating if area is small or inaccessible to power units.
3. Cut down high spots and fill low spots to produce a surface within Class B tolerance (1/4" in any 10 feet). Uniformly slope surfaces to drains. Immediately after leveling, refloat surface to a uniform, smooth, granular texture.
4. After floating, begin first trowel finish operation using a power-driven trowel. Begin final troweling when surface produces a ringing sound as trowel is moved over surface. Consolidate concrete surface by final hand-troweling operation, free of trowel marks, uniform in texture and appearance, and shall be plane to a Class A tolerance (1/8" in any 10 feet). Grind smooth surface defects, which would telegraph through applied floor covering system.

C. Embedded Items: Unless noted otherwise on drawings, tolerances shall be as follows:

1. Anchor Bolts
   - a. Adjacent anchor bolts in a group receiving a single fabricated setting piece: +/-1/8"
   - b. Location and alignment of anchor bolt groups from designated location and alignment: +/-1/4"

2. Embedded Plates and Weldments:
   - a. Location: +/-1/2" vertical; +/-1/2" horizontal
   - b. Alignment: ¼" in 12"

3.14 EVALUATION AND ACCEPTANCE CRITERIA

Evaluation and acceptance of work under this section shall be in accordance with the provisions of ACI 301, 1.6 and 1.7.

3.15 MISCELLANEOUS CONCRETE REQUIREMENTS

All other concrete work indicated on the drawings shall be provided and installed, even though not specifically mentioned herein, to complete the work, including the following:

A. Anchors: Install anchors furnished under other sections in accordance with shop approved drawings and/or setting instructions.

B. Concrete Curbs: Install concrete curbs, including reinforcing. Finish all concrete curbs in a workmanlike manner with a troweled finish.

C. Guard post Base: Form, reinforce and install guardpost as indicated on the drawings.

END OF SECTION 03300

SECTION 03600 - GROUT

PART 1 - GENERAL

1.00 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 - Specification sections, apply to work of this section.

1.01 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary for installation of non-shrink grout at the following locations:

1. Under steel column bearing plates

2. Elsewhere as indicated on the drawings

B. Related Work:

1. Concrete Foundations: Section 03300 Cast-In-Place Concrete

2. Steel framing and base plates: Section 05120 Structural Steel

1.02 SUBMITTALS

Product Data: Submit catalog data on grout proposed for use.

1.03 DELIVERY, STORAGE, AND HANDLING

Deliver in original unopened containers and store in a dry place under cover.

1.04 JOB CONDITIONS

Environmental Requirements: Maintain temperature of 40 degrees F. or above for at least 72 hours following placement.

PART 2 - PRODUCTS

2.01 NON-SHRINK GROUT OR DRYPACK

A. Acceptable Manufacturer and Products:

1. Non-Metallic Grout: Use one of the following where grout is exposed to view or weathering:
   - a. U.S. Grout Corporation "Five Star Grout"
   - b. Dayton Superior Corp. "Sure-Grip High Performance Grout"
   - c. Master Builders "Master Flow 928"
   - d. L&M Chemicals "Crystex"
   - e. Euclid Chemical Company "Euco NS"
   - f. Or approved equivalent

2. Metallic Grout: At the Contractor's option, one of the following may be used where covered by earth, concrete, or masonry, or otherwise concealed from view:
   - a. Master Builders "Embeco 153" or "Embeco 636"
   - b. L&M Chemicals "Ferro-Grout"
   - c. Euclid Chemical Company "Firmix"
   - d. Or approved equivalent

B. Grout shall conform to CRD-C-621-80, Corps of Engineers "Specification for Non-Shrink Grout."

PART 3 - EXECUTION

3.01 INSTALLATION

Completely fill with grout under column base plates, erection blockouts, connection blockouts, or pockets, and elsewhere as required after inspection and approval by independent testing agency. Mix, install, and cure grout according to manufacturer's recommendations.

END OF SECTION 03600

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1-Specification sections, apply to work of this section.

1.2 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary for completion of the following work:

1. Structural steel framing and support members, columns, struts, and complete with required braces, connection plates, welds, washers, bolts, nuts, shims, anchor bolts, and templates.

2. Base plates and cap plates.

3. Erecting, connecting, field welding, and adjusting for plumb and level.

4. All other work normally related to the above, as shown on drawings, or specified under this section.

B. Related Sections:

1. Grouting Under Base and Bearing Plates: Section 03600 - Grout

2. Steel Joists: Section 05200 - Metal Joists

3. Steel Deck: Section 05300 - Metal Decking

4. Support Framing for Openings in Metal Deck: Section 05500 - Metal Fabrications

5. Steel Supports for Mechanical or Electrical Equipment: Divisions 15 and 16

C. Definitions:

Structural Steel: That work defined in Section 2.1 of the AISC "Code of Standard Practice" and as shown on the drawings and specified herein.

1.3 QUALITY ASSURANCE

A. Fabricator Qualifications: Experienced in fabrication of structural steel for projects of similar size and difficulty. Subject to approval of Architect, Structural Engineer, and Owner.

B. Welder Qualifications: Welding shall be done only by welding operators currently qualified according to AWS D1.1.
C. Testing Agency:

1. Testing and inspection will be made by an approved testing laboratory. Furnish the testing agency access to work, facilities, and incidental labor required for testing and inspection. Retention of an independent testing agency shall in no way relieve the Contractor of responsibility for performing all work in accordance with the contract requirements.

2. Furnish the testing agency with the following:
   - a. A complete set of shop and erection drawings.
   - b. Mill test reports.
   - c. Information as to time and place of all rollings and shipment of material to shops.
   - d. Full and ample means and assistance for testing all material.
   - e. Proper facilities, including scaffolding, temporary work platforms, etc., for inspection of the work in the mills, shop and field.
   - f. Representative sample pieces requested for testing.

3. For steel produced outside the U.S., the Testing Agency shall conduct tests of physical and chemical properties of furnished steel to verify conformance with ASTM and AISC specifications. This testing will be done at the expense of the Owner.

4. The steel fabricator shall be responsible to assign an identifying symbol or mark to each person installing connections. Identify all shop and field connections with this mark so that the inspector can refer back to the person making the connection.

D. Reference Standards:

1. Design, Detailing, Fabrication, and Erection: Meet requirements of AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings," and AISC "Code of Standard Practice for Steel Buildings and Bridges," latest editions including supplements, except as amended below.

   The AISC "Code of Standard Practice for Steel Buildings and Bridges," is amended as follows:
   - a. Section 3.1 Structural Steel: Add a new second paragraph to this section as follows: "Structural steel members shown on plans but not identified as to size, section or material grade will be included in the bid price for the work by assuming sizes, sections or material grades shown for similarly loaded members having approximately the same overall length. All such members, and their associated cost, will be identified in the bid for the work."
   - b. Section 3.3 Discrepancies: Change the first sentence to read, "In case of discrepancies between plans and specifications for buildings, the plans govern."
   - c. Section 3.4 Legibility of Plans: In the first sentence, delete the phrase "and made to a scale not less than 1/8" to the foot."
   - d. Section 4.2.1: Delete the sentence "This approval constitutes the owner's acceptance of all responsibility for the design adequacy of any connections designed by the fabricator as part of his preparation of these shop drawings."

2. Welding: Meet requirements of AWS Structural Welding Code D1.1, latest edition.

3. High Strength Bolts: Meet requirements of AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts, latest edition.

4. Exposed Structural Steel: Meet requirements of AISC "Specifications for Architecturally Exposed Structural Steel," latest edition.

5. Surface Preparation: Meet requirements of specifications contained in Steel Structures Painting Council's Steel Structures Painting Manual, Volume 2, Systems and Specifications, latest edition.

1.4 SUBMITTALS

A. Shop Drawings: Submit shop drawings as specified under Section 01330. Clearly indicate profiles, sizes, spacing, and locations of structural members, connections, attachments, anchorages, framed openings, size and type of fasteners, cambers, and clearances. Indicate welded connections using standard AWS welding symbols. Clearly indicate net weld lengths, sizes and welding sequences. Clearly identify all high strength bolts not required to be tensioned (installed "snug tight" as defined by AISC).

B. Certifications: For all steel shapes, plates, bolts, nuts and washers, submit certification of domestic (U.S.) manufacture and pertinent data to demonstrate compliance with all provisions of these specifications.

C. Alternately, for steel shapes, plates, bolts, nuts and washers of foreign manufacture, submit certified Mill Test Reports for each item. Material testing as specified in Section 01451 for material manufactured outside the U.S. shall be done at the expense of the General Contractor to demonstrate compliance with all provisions of these specifications.

D. Design Calculations: Submit design calculations, bearing the seal and signature of a Professional Engineer, employed by the Contractor and registered in the State of Nevada, for the following:

1. Connections not completely detailed on the structural drawings.

2. Request for substitution of member sizes or material grades.

3. Modification of the strength or configuration of structural framing requested for the Contractor's convenience, erection sequence or construction equipment and/or materials.

4. Such calculations shall be in conformance with the reference standards cited herein and shall clearly demonstrate applicability for the intended use.

E. Submit copies of current AWS welder qualification certificates and welder marks for all welders at the time of shop drawing submittals.

1.5 DELIVERY, STORAGE AND HANDLING

A. Materials to be Installed by Others: Deliver anchor bolts and other anchorage devices which are embedded in cast-in-place concrete or masonry construction to the project site in time to be installed before the start of cast-in-place concrete operations or masonry work. Provide setting drawings, templates and directions for installation of anchor bolts and other devices. Templates shall be permanently marked with column center lines and north arrow.
B. Storage of Structural Steel: Support structural steel members which are stored at the project site above ground on platforms, skids, or other supports, upright to prevent twisting. Protect steel from corrosion. Store other materials in a weather-tight and dry place, until ready for use. Store packaged materials in their original, unbroken package or container. Where materials are to be stored on structure, store in a manner that will not cause distortion or damage the supporting structure. Repair or replace damaged materials or structures as directed.

1.6 JOB CONDITIONS

Protection: Protect any adjacent materials or areas below from damage due to weld splatter or sparks during field welding.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Wide Flanges, Channels, and Structural Tees: Unless otherwise scheduled or indicated, meet requirements of ASTM A-992 or A-572, Grade 50, conforming to Technical Bulletin #3.

B. Other Structural Steel: Unless otherwise scheduled or indicated, meet requirements of ASTM A-36 Structural Steel, latest edition.

C. Unfinished Bolts: Meet requirements of ASTM A-307, Carbon Steel Externally and Internally Threaded Standard Fasteners, latest edition, with hexagonal heads and nuts.

D. High Strength Bolts: Meet requirements of ASTM A-325 High Strength Bolts for Structural Steel Joints, latest edition, including suitable nuts and plain hardened washers.

E. Pipe: Meet requirements of ASTM A-53, Type E or S, Grade B, ASTM A-500, Grade B, or ASTM A-501 excluding furnace butt welding, latest editions.

F. Tube: Meet requirements of ASTM A-500, Grade B, latest edition.

G. Stud Connectors: Meet requirements of AWS D1.1 Structural Welding Code, latest edition, Type B.

H. Drilled-In Inserts: Size and type as noted on the drawings.

I. Filler Metals for Welding: Meet requirements of AWS D1.1, 70 Series.

J. Shop Paint: Steel Structures Painting Council Specification SSPC 13. Where steel is to be field painted, provide shop coat of paint compatible with finish paint system specified in Division 9.

2.2 FABRICATION

A. General:

1. Fabricate and assemble structural assemblies in shop to greatest extent practicable, in accordance with reference standards cited herein and final shop drawings.

2. Use detailing and fabrication procedures that account for distortion and shrinkage due to welding processes, both in the shop and in the field.

B. Connections:

1. Provide connections as shown or noted on the drawings. Connections not shown or noted shall be standard Framed Beam Connections as shown in AISC Manual of Steel Construction, 9th Edition, pp 4-9 thru 4-22 inclusive, except that bearing-type bolts in slotted holes may not be used to transmit any component of stress in the direction of the slot.

2. Tension all high strength bolts used in column splices, connections of beams and girders to columns, and where noted on drawings, to the values in Table J3.7 of AISC "Manual of Steel Construction," Ninth Edition. Other high strength bolts may be installed snug tight. No combination of welds and bolts, or of tensioned and snug-tight bolts, may be used to transmit stress in the same faying surface of any connection.

C. Shop Painting:
1. Surface Preparation: After fabrication and shop assembly, clean off all loose rust, loose mill scale, and weld spatter, slag or flux deposits in accordance with SSPC procedures as follows:
   - a. Surfaces to be covered in the completed structure: SP-3 "Power Tool Cleaning."
   - b. Surfaces exposed to weather in the completed structure: SP6- "Commercial Blast Cleaning."

2. Painting: Immediately after surface preparation, apply specified primer in accordance with manufacturer's instructions at a rate to provide a uniform dry film thickness of not less than 2.0 mils per coat. Use painting methods which result in full coverage of joints, corners, edges, and exposed surfaces.

   Omit shop paint at locations as follows:
   - a. Surfaces embedded in concrete
   - b. Surfaces to receive welding
   - c. Contact surfaces in high-strength bolted friction-type connections.

D. Marking: Mark all members in protected, plainly visible locations in accordance with reference numbers on setting diagrams. The member work point at each end of columns shall be determined and marked in the shop with a center punch or other acceptable means. Marking shall be placed on the flanges and web at each end of columns. Work point shall be as defined in AISC Code of Standard Practice, Section 7.11.2(a).

E. Finished Work: Finish all work in accordance with the final shop drawings, true and free from twists, kinks, buckles, open joints and other defects.

F. Cutting and Fitting: Perform all necessary cutting, fitting and drilling for the accommodation of other trades and do whatever is necessary to secure correct information for same, both before and after steel is delivered. No cutting or drilling will be permitted on the job without the acceptance of the Structural Engineer.

G. Welding: Comply with AISC specifications and latest American Welding Society standards. Welds not specified shall be 3/16" fillet continuous but not less than the AISC minimum based on the thickness of the parts joined.
H. Splices: Splicing of members to obtain the required lengths will not be permitted without prior acceptance of the Structural Engineer unless shown on the drawings.

I. Substitutions: Where exact sizes and weights called for are not readily available, secure the Structural Engineer's acceptance of suitable sizes in time to prevent delay due to such substitutions.

J. Shear Stud Connectors: Automatically end weld according to AWS D1.1. Shop weld where possible. Thoroughly clean surface where stud is to be attached. Remove mill scale by grinding or sandblasting where it is sufficiently thick to interfere with proper welding. At metal deck, field install by welding through deck.

2.3 ANCHORS

A. General: Provide all anchors for columns, beams, plates, etc., as shown on drawings, shop drawings, or as required.

B. Anchor Bolts: ASTM A307, with suitable nuts and plain hardened washers. Size and length as shown on drawings, hooked unless otherwise indicated.

C. Expansion Anchors: Wedge type with current ICBO approval and published ICBO Research Report. Complete with required nuts, washers, and manufacturer's installation instructions. Size and manufacturer as indicated on drawings.

1. Interior Use: For use in conditioned environments free from potential moisture, provide carbon steel anchor conforming to ASTM A307 with zinc plating in accordance with FS 22-Z-235.

2. Exterior or Exposed Use: In exposed or potentially wet environments, and for attachment of exterior cladding materials, provide galvanized or stainless steel anchors. Galvanized anchors shall conform to ASTM A133. Stainless steel anchors shall be Series 300 stainless steel bolts with Series 300 or Type 188 stainless steel nuts and washers.

3. Where anchor manufacturer is not indicated, subject to compliance with requirements and acceptance by the Architect and Structural Engineer, provide one of the following:

   "Kwik-Bolt" or "Super Kwik-Bolt" - Hilti Fastening Systems
   "Parabolt" - Molly Fastener Group
   "Red Head Wedge Anchor" - Phillips

PART 3 - EXECUTION

3.1 INSPECTION

Prior to start of erection, the steel erector shall check the elevation of all bearing surfaces and the location of all embedded anchor bolts and connection plates, and shall report all deviations from the Contract Documents to the Architect and Structural Engineer in writing. Do not proceed with erection until all unacceptable conditions are corrected.

3.2 PREPARATION

Field Measurements: Take measurements on site as required for correct fabrication and installation. Fabricator shall be responsible for errors in fabrication and for correct fit of structural steel.

3.3 INSTALLATION

A. Erection:
1. General: Erect structural steel in accordance with AISC Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings, latest edition, including supplements, with additional requirements of this section.
2. Base and Bearing Plates: Set base and bearing plates and leveling plates level (+/- 1/32") and at correct elevations (+/- 1/16") on roughened surfaces cleaned of all bond reducing materials. Temporarily support on steel wedges or shims until supported members are plumbed and grouting is completed.
3. Field Assembly:
   - a. Assemble structural steel frames to the lines and elevations indicated within the specified erection tolerances.
   - b. Align the various members forming a complete frame or structure after assembly and adjust accurately before being fastened.
   - c. Splice only where indicated on drawings.
4. Field Connections:
   - a. Make field connections with bolts, high strength bolts or field welding unless otherwise indicated. Tighten all high-strength bolts to provide the minimum tension shown in Table J3.7 of AISC "Manual of Steel Construction," Ninth Edition, unless otherwise shown on the design or erection drawings.
   - b. Clean existing surfaces before welding to existing steel. No drifting or cutting to enlarge unfair holes will be allowed. Make minor corrections by reaming. Serious defects may not be corrected in the field but shall be called to the attention of the Structural Engineer for a decision as to the method and/or procedure.
   - c. Weld slag shall be removed from all welds by steel erector prior to inspection by independent testing agency.
5. Compression Splices: Fasten splices in compression after bearing surfaces have been brought into contact. Clean bearing surfaces before assembling. Close all gaps 1/32" wide or greater by driving non-tapered mild steel shims full depth of the bearing surface along the full length of the gap.
6. Temporary Bracing: Consider all structural steel as non-self-supporting steel frames. Provide suitable temporary bracing as necessary to maintain structural steel in proper position until permanently secured. Leave temporary bracing in place as required for safety.
7. Field Modification: Request in writing, and obtain written permission from the Structural Engineer before the use of any flame cutting for field modification or refabrication of structural steel. The structural steel fabricator shall be responsible for errors in fabrication and for correct fit in the field.
8. Drilled-In Inserts: Install in accordance with manufacturer's recommendations in accurately drilled holes of required diameter and depth. Where epoxy-bonded inserts are used, thoroughly clean hole of all debris and drill dust prior to installation of insert and epoxy bonder. Do not drill holes in concrete or masonry until material has achieved full design strength.

B. Erection Tolerances: Comply with requirements of AISC Code of Standard Practice, except as follows:
1. Columns:
   - a. Maximum deviation of column from established centerline shall not exceed 1", accumulative from all sources.
   - b. Bases of all columns shall be located on established centerlines within +/- 1/8".
   - c. Maximum variation between top elevations of all columns in any tier shall not exceed 1/2". Maximum variation between top elevations of any two adjacent columns shall not exceed 3/8".
2. Members Connecting to Columns:
   - a. Horizontal deviation of member working point from position with respect to supporting column working line shall not exceed +/- 1/16" from the location shown on drawings.
   - b. Elevation deviation of member working point with respect to upper splice line of supporting column shall not exceed +1/8" or -1/4" from the elevation shown on drawings.
3. Other Members: Deviation of member working point horizontal location and elevation with respect to the supporting member shall not exceed +/- 1/16" from the location and elevation shown on the drawings.
4. Leveling and Plumbing: Base leveling and plumbing on a mean temperature of 70 degrees F. Compensate for difference in temperature at time of erection.

END OF SECTION 05120

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE: 04/07/10
SPECIFICATIONS

S0.2

DIVISION 5 - METALS (CONT.)

SECTION 05200 - METAL JOISTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1-Specification sections, apply to work of this section.

1.2 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary for fabrication and erection of metal joists and joist girders including bridging, anchors, and related accessories.

B. Related Work:

1. Structural Steel: Section 05120 - Structural Steel.

2. Steel Deck: Section 05300 - Metal Decking.

1.3 QUALITY ASSURANCE

A. Welder Qualifications: Welding shall be done only by certified welding operators currently qualified according to AWS D1.1.

B. Manufacturer Qualifications: Joist manufacturer must be a member of the Steel Joist Institute and regularly engaged in the manufacture of the products supplied.

C. Testing Agency: Testing and inspection will be made by an approved testing laboratory. Contractor shall furnish testing agency access to work, facilities, and incidental labor required for testing and inspection. Retention of an independent testing agency shall in no way relieve the Contractor of responsibility for performing all work in accordance with the contract requirements. See Section 01451 – Testing and Inspection Services.

D. Reference Standards:

1. Materials, Fabrication, and Design:
   a. Steel Joists: Meet requirements of Steel Joist Institute Standard Specifications for Open Web Steel Joists, K series, LJ and LH series, and DLJ and DLH series, latest edition.
   b. Steel Girders: Meet requirements of Steel Joist Institute Standard Specifications for Joist Girders, latest edition.

2. Welding: Meet requirements of AWS Structural Welding Code, D1.1, latest edition.

3. Erection: Meet requirements of AISC Code of Standard Practice, Section 7, latest edition.

1.4 SUBMITTALS

Shop Drawings: Submit shop drawings as specified under Section 01330. Indicate sizes, spacing and location of joists, joist girders, connections, bridging, reinforcing anchorages, cambers, loads and all accessories. Indicate welded connections using standard AWS welding symbols.

1.5 DELIVERY, STORAGE AND HANDLING

Store metal joists and joist girders at the jobsite on platforms, skids or other supports and upright to prevent twisting. Inspect joists and joist girders upon delivery. Repair or replace damaged joists or joist girders as directed by the manufacturer subject to acceptance by the Structural Engineer. Keep joists and joist girders free from dirt and mud during storage and erection.

1.6 JOB CONDITIONS

Protection: Protect any adjacent materials or areas below from damage due to weld splatter or sparks during field welding.

PART 2 - PRODUCTS

2.1 JOISTS AND JOIST GIRDERS

A. Construction: Construct joists and joist girders to conform to SJI Standard Specifications and in sizes, types and lengths indicated on the drawings. Slope bearing plates where indicated on drawings, or required.

B. Shop Painting: Dip, spray or paint all joists and joist girders with one coat of joist manufacturer's standard paint.

C. Bridging: Standard specifications unless otherwise indicated.

D. Extended Ends: Design for load carrying capacity equal to joists, or as indicated on drawings, whichever is greater.

E. Accessories: Provide all accessories as required and as indicated on the drawings.

PART 3 - EXECUTION

3.1 INSPECTION

A. Prior to start of erection, the joist erector shall check the elevation and location of all bearing surfaces and shall report all deviations from the approved shop drawings to the Architect, Structural Engineer and General Contractor. Do not proceed with erection until all unacceptable conditions are corrected.

B. The erector shall also verify that all joists and joist girders are undamaged and ready for erection. Damaged or twisted joists and/or joist girders will be repaired or replaced as directed by the manufacturer subject to acceptance by the Structural Engineer.

3.2 ERECTION

A. General: Handle and erect joists and joist girders in conformance with standard specifications and in the locations indicated on the drawings. Do not drop or rack to cause permanent twist. Joists and/or joist girders dropped or damaged during erection are subject to replacement.

B. Welding: Unless noted otherwise, weld all joists and joist girders to steel bearing.

C. Bridging: Adjustment of bridging location will be permitted for clearance of ducts, mechanical equipment, recessed lighting fixtures, and other ceiling penetrations, subject to acceptance by the Structural Engineer.

Complete bridging and before any loads are applied to the joist system.

3.3 TOUCH-UP PAINTING

Touch-up damaged areas of shop paint where joists and joist girders are exposed to view or weather.

3.4 FIELD QUALITY CONTROL

A. Testing and Inspection Services for inspection and/or certifications required of Supplier. This testing will be done at the expense of the Owner.

END OF SECTION 05200

SECTION 05300 - METAL DECKING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1-Specification sections, apply to work of this section.

1.2 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material and equipment necessary for completion of the following work:

1. Non-composite roof deck.

2. All accessories including fillers, sump pans, etc.

3. Reinforcement at openings thru metal deck.

B. Related Sections:

1. Structural Steel: Section 05120 - Structural Steel

2. Steel Joists: Section 05200 - Metal Joists

3. Roof Deck Support Frames: Section 05500 - Metal Fabrications

1.3 QUALITY ASSURANCE

A. Welder Qualifications: Welding shall be done only by welding operators currently qualified according to AWS D1.1.

B. Manufacturer Qualifications: Regularly engaged in production of metal decking.

C. Erector Qualifications: Minimum of five (5) years experience in erection of metal decking for projects of similar size and difficulty. Subject to approval of Owner.

D. Testing Agency: Testing and inspection will be made by an approved testing laboratory. Contractor shall furnish testing agency access to work, facilities and incidental labor required for testing and inspection. Retention of an independent testing agency shall in no way relieve the Contractor of responsibility for performing all work in accordance with the contract requirements. This testing will be done at the expense of the Owner.

E. Design Criteria: See drawings for minimum section properties and span. Steel deck shall be designed using Steel Deck Institute design formulas as provided in the "Steel Deck Institute Design Manual for Composite Decks, Form Decks, and Roof Decks," latest edition. Design shall also comply with the following:

1. Non-Composite Deck:
   a. Maximum Flexural Working Stress: 20,000 psi.
   b. Maximum Roof Deflection: 1/240 span length, center to center of supports under live load.

2. Span Conditions: Strength design of deck units shall be based on clear span length, edge-to-edge of supports.

3. Comply with the requirements of the indicated UL designs for roof assemblies.

F. Reference Standards

1. Design and Manufacturer: Meet requirements of Steel Deck Institute Basic Design Specifications and AISI Specifications for the Design of Cold-Formed Steel Structural Members, latest edition.

2. Welding - I: Meet requirements of AWS Structural Welding Code, AWS D1.1, latest edition.

1.4 SUBMITTALS

A. Manufacturers Data: Submit two copies of manufacturer's specifications and installation instructions for each product specified. Include manufacturer's certification as may be required to show compliance with these specifications. Furnish a copy of each instruction to the installer.

B. Shop Drawings: Submit shop drawings as specified under Section 01330 – Submittal Procedures. Indicate decking plan, deck profile, dimensions, gage, anchorage, supports projections, openings and reinforcement, finishes, applicable details and accessories, type, locations, and size of welds, and related accessories.

1.5 DELIVERY, STORAGE AND HANDLING

A. General Contractor shall inspect all metal deck upon delivery to the site. Any damaged deck shall be rejected immediately and replaced.

B. Store metal deck at the site above ground on platforms, skids or other supports with one end elevated for drainage. Cover deck until needed with a waterproof covering ventilated to prevent condensation.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Sheet Steel: Minimum yield strength of 33,000 psi. Conform to ASTM A446, Grade A, where galvanized finish is used. Conform to ASTM A611, Grade C where painted or phosphatized finish is used.

B. Deck Units: Provide manufacturer standard roll formed decking as follows:

1. Deck Not Supporting Concrete or Cementitious Fill: Non-composite design. Finish to be painted.

C. Finishes: Conform to the following:

1. Painted Finish: Manufacturer's standard, baked on, rust inhibitive. Apply to chemically cleaned, phosphatized surface.

2. Phosphatized Finish: Manufacturer's, standard, chemically cleaned, iron phosphate coated prior to forming.

2.2 FABRICATION

Form deck units with flush, telescoped, or nested 2-inch end laps and nested side laps. Length of deck unit shall be sufficient to span between four or more supports except for composite deck which may span between two or more supports.

2.3 ACCESSORIES

A. Metal Closure Strips: Fabricate of galvanized sheet steel of same quality as deck units. Minimum thickness for roofs, 20 gauge. Minimum thickness for floors, 18 gauge. Bend to provide tight fitting closures at open ends and sides of decking.

B. Cover Plates: Fabricate of sheet steel of same quality as deck units, 18 gauge minimum thicknesses. Configuration to match contour of floor deck units.

C. Roof Sump Pans: Fabricate from single piece of sheet steel of same quality as deck units, 14 gauge minimum thicknesses. Level bottom and sloping sides to direct water flow to drain. Bearing flanges not less than three inches wide. Recess not less than 1-1/2 inches below roof deck surface.

D. Welding Electrodes: AWS A5.1-79 Class E-6022 or acceptable equivalent.

E. Hanger Tabs: 50 pound allowable load, maximum.

PART 3 - EXECUTION

3.1 INSPECTION

Prior to start of installation, check all supporting members for correct layout and alignment and report all deviations from the drawings to the General Contractor.

3.2 ERECTION

A. General: Install deck units and accessories in accordance with manufacturer's recommendations and shop drawings.

B. Placing Deck Units: Position deck units on supporting members and adjust to final position with ends bearing on support and accurately aligned end to end before being permanently fastened. Provide non-composite roof deck end laps of not less than 2 inches. Do not stretch or contract side lap interlocks. Place deck units flat and square, and secure to adjacent framing without warp or deflection.

C. Fastening Roof Deck Units: Unless shown otherwise on drawings, fasten deck units as follows:

1. Non-Composite Roof Decks: Secure to supporting members with 5/8 inch minimum diameter fusion welds spaced 6 inches o.c. at end laps and 12 inches o.c. at intermediate supports and at perimeter.
2. Other Requirements: Weld or mechanically fasten end closures at 4 ft. o.c. Fasten side laps between adjacent deck units with welds, or Tek fasteners in accordance with manufacturer's recommendations and at intervals noted on the Drawings.

D. Cutting and Fitting: Cut and fit deck units and accessories around openings and projections through decking. Make cuts neat, square, and trim. Cut openings true to dimensions using metal saws, drills, or shears. Do not torch cut.
E. Reinforcement at Openings:

1. Provide reinforcing for all openings through metal deck as shown on the drawings.
2. Miscellaneous openings not shown on the drawings, such as those required for vents, risers, conduits, etc., shall be cut and reinforced, if necessary, by the trade requiring the opening.

F. Roof Sump Pans: Place over openings in roof decking and weld to top decking surface. Space welds not more than 12 in o.c. with at least one weld at each corner. Cut opening in bottom of sump pan to accommodate drain.

G. Closure Strips: Install at all open uncovered ends and edges of roof decking, and in voids between decking and other construction. Install flexible closure strips in accordance with manufacturer's instructions.

3.3 PROTECTION OF COMPLETED WORK

A. Do not use deck units for storage or as a working platform until permanently secured in position.

B. The General Contractor shall assure that completed deck is not damaged by use as a runway, storage of materials or subsequent work. He is to assure that construction loads are not allowed which exceed the safe carrying capacity of the deck.

C. Provide tabs, clips or other accessories acceptable to the Architect and Structural Engineer for hanging loads exceeding 50 lbs.

END OF SECTION 05300

SECTION 05400 - COLD FORMED METAL FRAMING

PART 1 - GENERAL

1.00 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 - Specification sections, apply to work of this section.

1.01 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary for completion of the following work:

1. Non-load-bearing metal stud wall framing with anchorage, bridging and bracing.

B. Related Sections:

1. Structural Steel: Section 05120 - Structural Steel

2. Steel Joists: Section 05200 - Metal Joists

3. Steel Deck: Section 05300 - Metal Decking

1.02 QUALITY ASSURANCE

A. Erector Qualifications: Minimum of three years successful experience on comparable cold-formed metal framing work.

B. Welder Qualification: Currently qualified in accordance with AWS D1.1.

C. Reference Standards:

1. Design and Manufacturer: Meet requirements of AISI Specification for the Design of Light Gauge Cold Formed Steel Structural Members, latest edition.

2. Welding: Meet requirements of AWS Structural Welding Code, AWS D1.1.

1.03 SUBMITTALS

A. Shop and Erection Drawings:

1. Submit shop drawings as required by Section 01330 Submittal Procedures for all walls composed of punched metal structural studs. Indicate all member sizes, spacing and locations. Detail all connections, including connectors, fasteners, and accessories. Indicate all welds using standard AWS symbols.

2. Submit erection drawings as required by Section 01330 Submittal Procedures for all metal stud systems defined on the Structural Drawings. Indicate all member sizes, including special framing at openings. Detail all connections and attachment to supporting structure, including connectors, fasteners, and accessories. Indicate all welds using standard AWS symbols.

B. Product Data: Prior to starting erection of studs, submit copies of manufacturer's specifications covering all materials to be used with all materials and accessories plainly identified. See Section 01330 Submittals.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original, unopened bundles or containers and store in a clean, dry area until ready for use.

B. Deliver and store shop fabricated panels in a manner to prevent twisting.

PART 2 - PRODUCTS

2.01 FRAMING MATERIALS

A. Acceptable Manufacturers:
   1. Western Metal Lath Company
   2. Steel Bender, Inc.
   3. Clark Steel Framing Systems
   4. Or approved equivalent

B. Framing Members:

1. General: Type, size, gauge, spacing, and fasteners as shown on the drawings and required by these Specifications.

2. Studs and Track: Studs as called for on the drawings. Head and sill track and header members to be unpunched track, same gauge as studs or one gauge heavier.

3. Finish: All framing members to have galvanized finish.

4. Steel: All framing members to be formed from steel conforming to the following:

   a. 18 gauge and lighter, galvanized: ASTM A446-76, Grade A or B.
   b. 18 gauge and lighter, painted: ASTM A611-72, Grade C, 33 ksi yield.
   c. 16 gauge and heavier, galvanized: ASTM A446-76, Grade D, 50 ksi yield.
   d. 16 gauge and heavier, painted: ASTM A570-75, Grade E, 50 ksi yield.

5. Stud Bridging: 18 gauge or heavier channel studs of same width as studs.

6. Diagonal Corner Bracing: 2 rows 2" or wider, 16 gauge strap

2.02 FASTENERS
A. Self-drilling, self-tapping screws, bolts, nuts and washers: ASTM A90, Hot-Dip Galvanized.

B. Anchorage devices: Power driven or powder actuated; drilled expansion bolts; screws with sleeves.
C. Welding: Comply with AWS D1.3.

D. Welding Electrodes: Conform to SMAW AWS A5.1 or A5.5, E60XX or E70XX.

2.03 FABRICATION

A. Shop fabricate framed sections of sizes and profiles required, with joints fitted and secured, reinforced and braced for shipment to jobsite. Fit and assemble in largest practical sections for delivery and installation.

PART 3 - EXECUTION

3.01 ERECTION

A. Floor and Ceiling Track: Align floor and ceiling tracks according to drawing dimensions for wall on partition location. Secure with screws, power driven or powder actuated fasteners, or welding at 24" on center.

B. Studs: Place studs 16"on center, and not more than 2" from abutting walls and at each side of openings. Connect studs to tracks with screws or welding in accordance with drawings and manufacturer's recommendations. Construct corners using minimum of three studs. Minimum double studs at door, window and sidelite jambs, unless noted otherwise on drawings. Install intermediate studs above and below openings to match wall stud spacing. Provide deflection allowance below supported horizontal building framing in ceiling or head track for non-load-bearing framing. Erect load bearing studs one piece full length. All multiple jamb studs at edges of wall openings shall be stitch-welded together on inside and outside faces of studs with 1/8" weld. 1" long. at 12" on center.

C. Splicing or wire tying of framing components is not permitted. Refer to drawings for location of partitions extended to ceiling only, and partitions extending through ceiling to structure above.

D. Bridging and Diagonal Bracing: Install bridging and bracing of types and in locations indicated on the drawings. Unless otherwise indicated, attach all bridging and diagonal bracing by welding capable of resisting a force of 500 lbs. minimum.

E. Miscellaneous Framing and Furring: Provide all necessary framing, furring, etc., for special framing at recesses and specialty items. Attach cross studs or furring channels to studs for attachment of fixtures behind lavatory basins, toilet and bathroom accessories, grab bars and other items anchored to partitions or walls. Install framing between studs for attachment of electrical boxes and other mechanical and electrical items.

END OF SECTION 05400

SECTION 05500 - METAL FABRICATIONS

PART 1 - GENERAL

1.0 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1-Specification sections, apply to work of this section.

B. Related sections – The following section contain requirements that relate to this section:

1.1 DESCRIPTION

A. Work Included: Work consists of furnishing all labor, material, and equipment necessary to fabricate and provide items listed under paragraph C.

B. Related Work:

1. Structural Steel: Section 05120 - Structural Steel

2. Steel Joists: Section 05200 - Metal Joists

3. Steel Deck: Section 05300 - Metal Decking

4. Structural Steel Studs and Joists: Section 05400 - Cold Formed Metal Framing

5. Mechanical Equipment Supports: Division 15 Mechanical

6. Grouting Under Base Plates and Bearing Plates: Section 03600 –Grout

7. Miscellaneous Architectural Steel – Section 05420 – Architectural Metal Fabrications.

8. Drilled-In Insert Testing: Included under CEC Standard Testing and Inspection Services.

C. Work Furnished but not Installed:

1. Anchor Bolts, Embed Plates, and Weld Plates for Anchoring Metal Fabrications: Install under Section 03300 Cast-In-Place Concrete.

2. Loose Steel Angle Lintels Built into Masonry: Install under Section 04200 – Concrete Unit Masonry.

3. Railing Sleeves: Install under Section 03300 - Cast-In-Place Concrete

4. Angle bracing for hollow metal door and window frames

5. Steel opening frames

6. All other miscellaneous angles, channels, tubes, and plates as indicated on the drawings and not specified elsewhere.

D. Definitions:

1. Metal Fabrications: Synonymous with miscellaneous metals.

2. Architecturally Exposed Structural Steel: As used under this section, includes all metal fabrications exposed to view.

1.2 QUALITY ASSURANCE

A. Fabricator Qualifications: Experienced in fabrication of miscellaneous steel.

B. Welder Qualifications: Welding shall be done only by certified welding operators currently qualified according to AWS D1.1.

C. Reference Standards:

1. Steel: Meet requirements of AISC "Specifications for Architecturally Exposed Structural Steel," latest edition.

2. Welding: Meet requirements of AWS "Structural Welding Code," D1.1, latest edition.

1.3 SUBMITTALS

A. Shop Drawings: Submit shop drawings as specified under Section 01330 for all custom fabricated items under this section. Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size, and type of fasteners and accessories. Include erection drawings, elevations, and details where applicable. Indicate welded connections using standard AWS welding symbols. Indicate net weld lengths and sizes.

B. Product Data: Submit product data as specified under Section 01330 for all manufacturers' stock items under this section.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver anchor bolts and other anchorage devices which are embedded in cast-in-place concrete or masonry construction to the project site in time to be installed before the start of cast-in-place concrete operations or masonry work.

B. Provide setting drawings, templates, and directions for the installation of anchor bolts and other similar devices.

C. Metals which are stored at the project site shall be above ground on platforms, skids, or other supports. Protect steel from corrosion. Store other materials in a weathertight and dry place until ready for use.

D. Store packaged materials in their original, unbroken package or container.

1.5 JOB CONDITIONS

A. Protection: Protect any adjacent materials or areas below from damage due to weld splatter or sparks during field welding.

B. Field Measurements: Check actual locations of walls and other construction to which metal fabrications must fit by accurate field measurements before fabrication. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Steel Shapes, Bars, and Plates: Conform to ASTM A36.

B. Steel Pipe and Tubing: Conform to ASTM A53 Type E or S Grade B, A501, or A500, minimum wall thickness, 11 gauge.

C. Bolts: Conform to ASTM A307

D. Welding Electrodes: Conform to AWS D1.1, 70 Series

E. Stud Connectors: Meet requirements of AWS D1.1, Structural Welding Code, latest edition, Type B.

F. Anchors: Meet requirements of Section 05120.

G. Stainless steel: Stainless steel shall be gauges as indicated, Type 304, with #3 finish.

H. Shop Paint: Tnemec 10-99 red metal primer, or Rust-Oleum 1069 red primer.

I. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in galvanized steel, with dry film containing not less than 94 percent zinc dust by weight, and complying with DOD-P-21035 or SSPC-Paint 20.

2.2 FABRICATION

A. General: Fabricate in accordance with details and reviewed shop drawings, all miscellaneous items of metal work indicated or as necessary to complete the work. Verify dimensions on site prior to shop fabrication.

1. All materials shall be new stock of types and sizes indicated.

2. Make all cuts clean and sharp with wire edges ground smooth. On completion, the work shall be straight, rigid and tight, and free from defects of any nature.

3. Close exposed ends of steel pipe or tubing with welded caps. Fabricate items with joints neatly fitted and properly secured.

4. Fit and shop assemble, in largest practical sections, for delivery to site.

5. Exposed mechanical fastenings shall be flush, countersunk screws or bolts, unobtrusively located, consistent with design of structure, except where specifically noted otherwise.

6. Make exposed joints flush butt-type, hairline joints where mechanically fastened.

7. Supply components required for proper anchorage of metal fabrications. Fabricate anchorage and related components of same material and finish as metal fabrication, unless otherwise specified or detailed.

B. Welding: Comply with latest American Welding Society standards. Miter and cope intersections and weld all around. Remove splatter, grind exposed welds to blend, and contour surfaces to match those adjacent.

C. Shop Painting: After fabrication, clean off loose scale, rust, weld slag or flux deposit, oil, grease, dirt or other foreign material. Prepare surfaces as required and shop coat all fabricated items with red metal primer. Omit shop painting on surfaces embedded in concrete or requiring field welding.

D. Substitutions: Where exact sizes and weights called for are not available, secure acceptance of the Architect and Structural Engineer for suitable sizes prior to proceeding.

2.3 STEEL OPENING FRAMES

A. All openings in metal roof deck greater than 10" in any direction shall be supported on all four sides by a steel frame spanning between steel joists or other deck supports. Member sizes and bearing as detailed or scheduled on the drawings. Weld members together to form complete assembly.

2.4 ROUGH HARDWARE

A. Furnish bent, or otherwise custom-fabricated, bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 Sections.

A. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts that bear on wood structural connections, and furnish steel washers elsewhere.

2.5 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports for applications indicated that are not a part of structural steel framework as required to complete the Work.

A. Fabricate units to sizes, shapes, and profiles indicated and required to receive other adjacent construction retained by framing and supports. Fabricate from structural steel shapes, plates, and steel bars of welded construction using mitered joints for field connection. Cut, drill, and tap units to receive hardware, hangers, and similar items.

B. Galvanize miscellaneous framing and supports in exterior locations.

2.6 FINISHES, GENERAL

B. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designing finishes.

C. Finish metal fabrications after assembly.

2.7 STEEL AND IRON FINISHES

A. Galvanizing: For those items indicated for galvanizing, apply zinc coating by the hot-dip process complying with the following requirements:
   1. ASTM A 153 for galvanizing iron and steel hardware.
   2. ASTM A 123 for galvanizing both fabricated and unfabricated iron and steel products made of uncoated rolled, pressed, and forged shapes, plates, bars, and strip 0.0299 inch thick or thicker.

B. Preparation for Shop Priming: Prepare uncoated ferrous metal surfaces to comply with minimum requirements indicated below for SSPC surface preparation specifications and environmental exposure conditions of installed metal fabrications:
   1. Exteriors (SSPC Zone 1B): SSPC-SP 6 "Commercial Blast Cleaning."
   2. Interiors (SSPC Zone 1A): SSPC-SP 3 "Power Tool Cleaning."

C. Apply shop primer to uncoated surfaces of metal fabrications, except those with galvanized finishes or to be embedded in concrete, sprayed-on fireproofing, or masonry, unless otherwise indicated. Comply with requirements of SSPC-PA 1 "Paint Application Specification No. 1" for shop painting.
   1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.1 PREPARATION

D. Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installing anchorages, including concrete inserts, sleeves, anchor bolts, and miscellaneous items having integral anchors that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

E. Set sleeves in concrete with tops flush with finish surface elevations. Protect sleeves from water and concrete entry.

3.2 INSTALLATION

A. Obtain Architect's and Structural Engineer's review prior to site cutting or making adjustments which are not part of scheduled work.

B. Install items square and level, accurately fitted and free from distortion or defects.

C. Make provision for erection stresses by temporary bracing. Keep work in alignment.

D. Replace items damaged in course of installation.

E. Perform field welding in accordance with AWS D1.1.

F. After installation, grind and touch-up field welds and scratched and damaged prime painted surfaces. Use a primer consistent with shop coat.

G. Set all railings in sleeves with molten lead or non-shrink grout. Sulfur or gypsum-based products shall not be used for this purpose.

H. Install drilled-in inserts in accordance with manufacturer's recommendations in accurately drilled holes of required diameter and depth. Where epoxy-bonded inserts are used, thoroughly clean hole of all debris and drill dust prior to installation of insert and epoxy bonder. Do not drill holes in concrete or masonry until material has achieved full design strength.

3.3 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 requirements for touching up shop-painted surfaces.
   1. Apply by brush or spray to provide a 2.0-mil minimum dry film thickness.

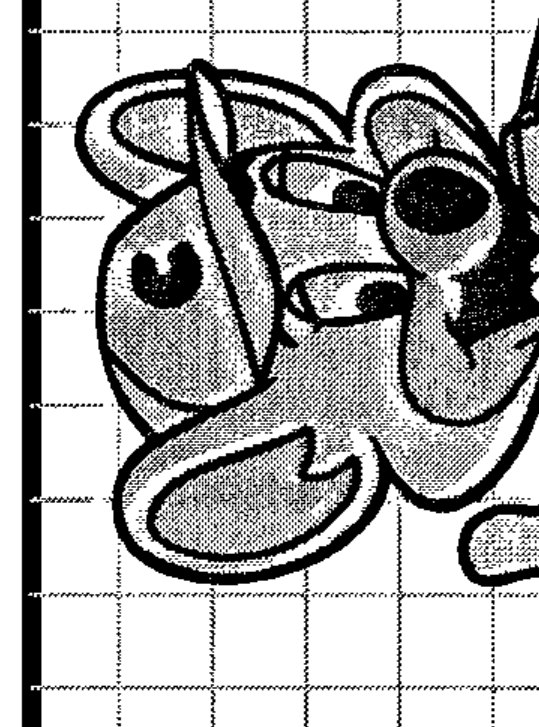
B. For galvanized surfaces, clean welds, bolted connections, and abraded areas, and apply galvanizing repair paint to comply with ASTM A 780.

END OF SECTION 05500

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com



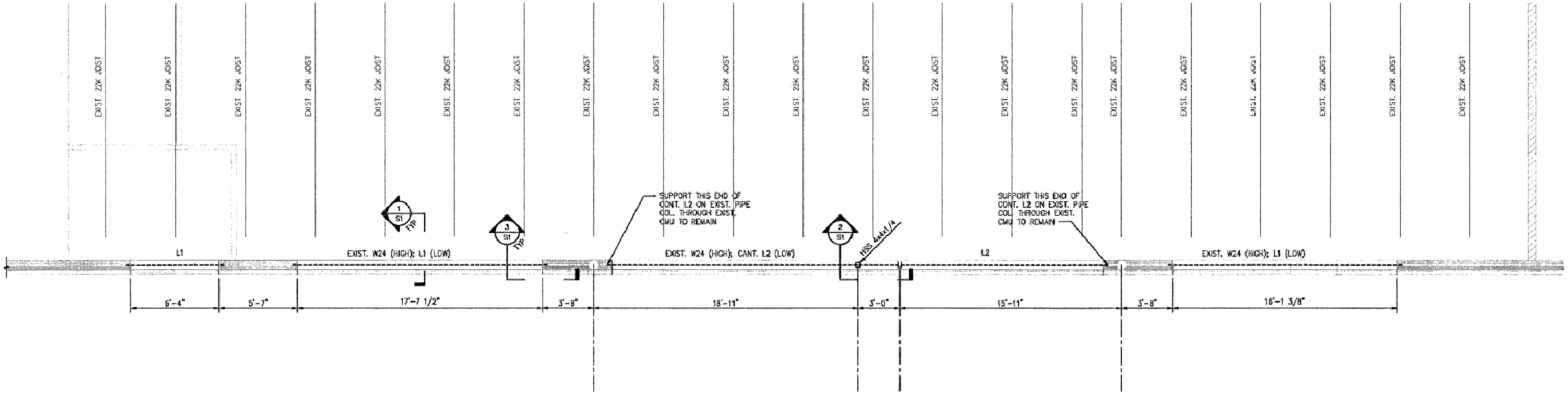
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

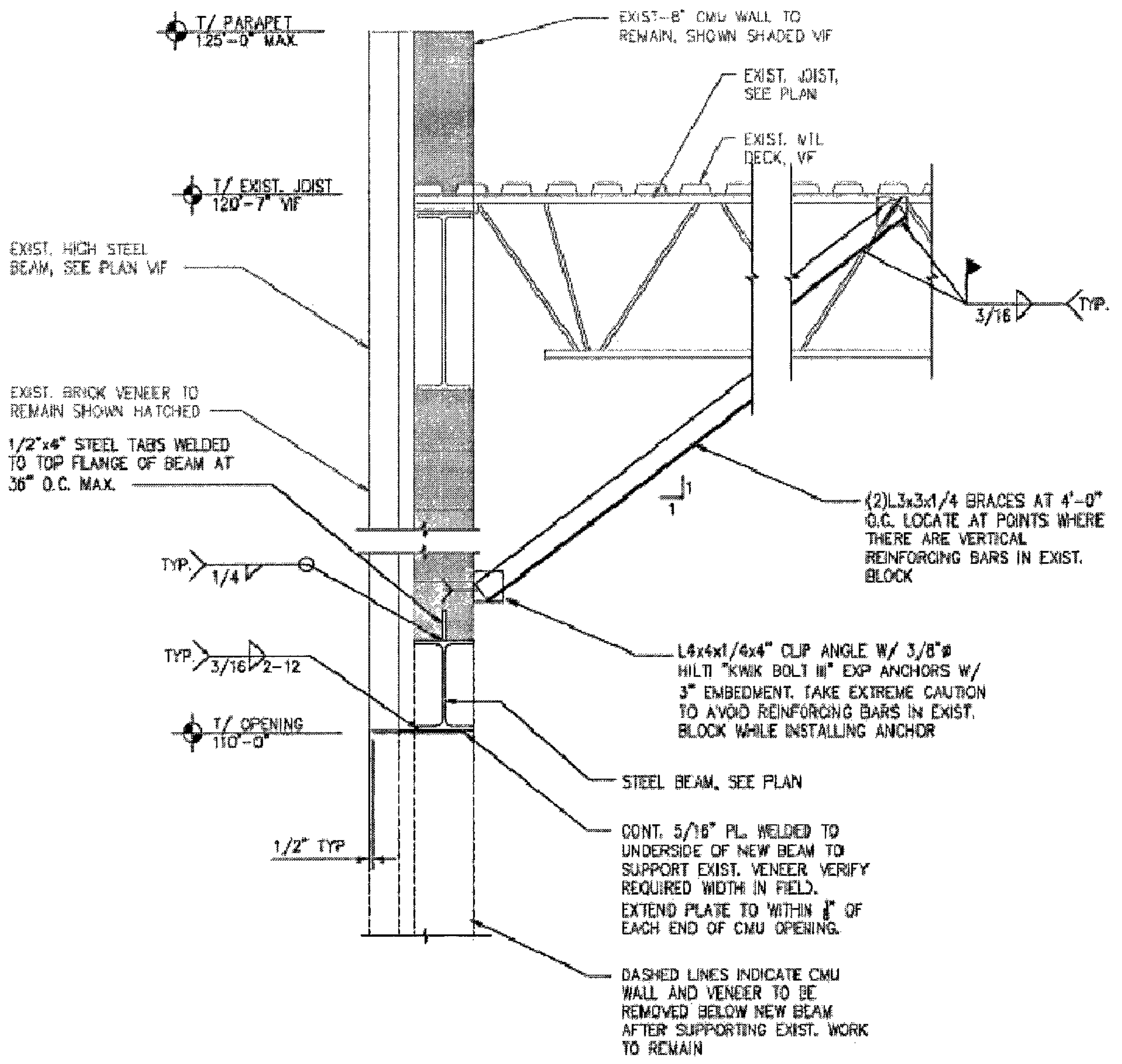
PROJECT NO: 090899
DRAWN BY: JDJ
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

STRUCTURAL SPECIFICATIONS

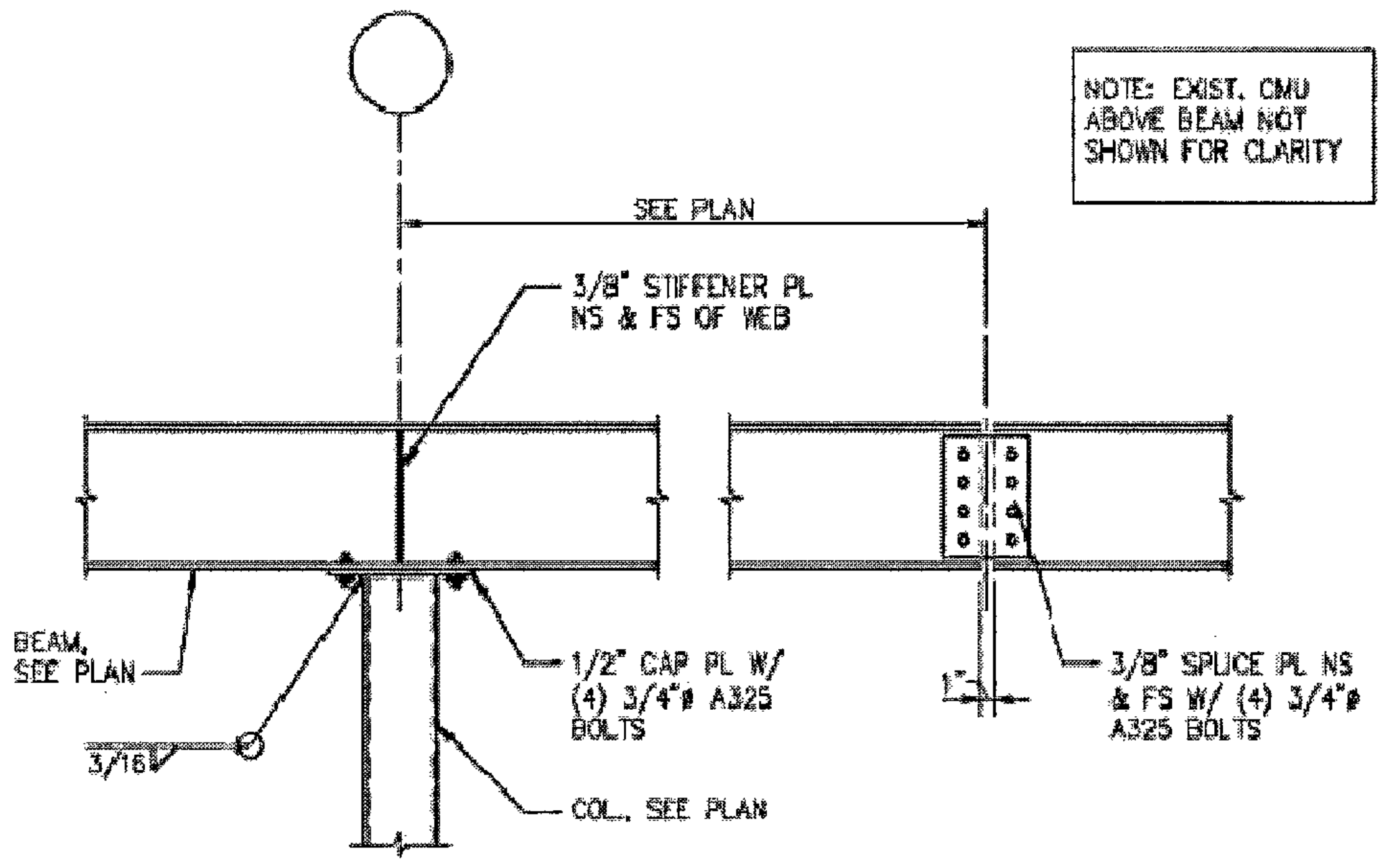
SO.3


EXIST. 22K JOIST
L1
EXIST. W24 (HIGH); L1 (LOW)
EXIST. W24 (HIGH); CANT. L2 (LOW)
L2
EXIST. W24 (HIGH); L1 (LOW)
SUPPORT THIS END OF CONT. L2 ON EXIST. PIPE COL. THROUGH EXIST. CMU TO REMAIN
HSS 4x4x1/4
1 S1 TYP
3 S1 TYP
2 S1
6'-4"
5'-7"
17'-7 1/2"
3'-8"
18'-11"
3'-0"
15'-11"
3'-8"
18'-1 3/8"

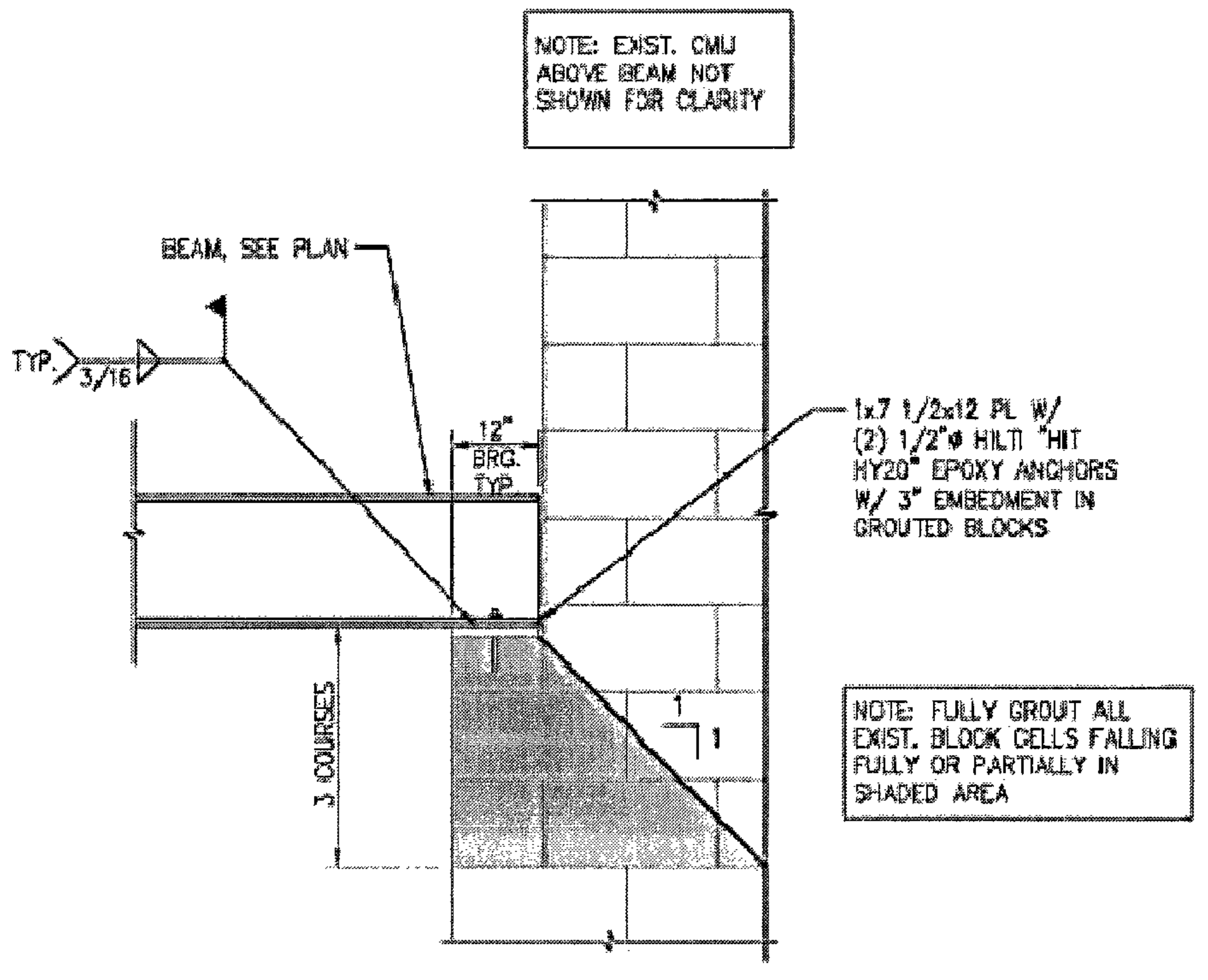
PARTIAL EXIST. ROOF FRAMING PLAN
1/4"=1'-0"


T/ PARAPET 125'-0" MAX.
EXIST.-8" CMU WALL TO REMAIN, SHOWN SHADED VIF
EXIST. JOIST, SEE PLAN
EXIST. MTL DECK, VF
T/ EXIST. JOIST 120'-7" VIF
EXIST. HIGH STEEL BEAM, SEE PLAN VIF
3/16 TYP.
EXIST. BRICK VENEER TO REMAIN SHOWN HATCHED
1/2"x4" STEEL TABS WELDED TO TOP FLANGE OF BEAM AT 36" O.C. MAX.
(2)L3x3x1/4 BRACES AT 4'-0" O.C. LOCATE AT POINTS WHERE THERE ARE VERTICAL REINFORCING BARS IN EXIST. BLOCK
TYP. 1/4
L4x4x1/4x4" CLIP ANGLE W/ 3/8"ø HILTI "KWIK BOLT III" EXP ANCHORS W/ 3" EMBEDMENT. TAKE EXTREME CAUTION TO AVOID REINFORCING BARS IN EXIST. BLOCK WHILE INSTALLING ANCHOR
TYP. 3/16 2-12
T/ OPENING 110'-0"
STEEL BEAM, SEE PLAN
1/2" TYP
CONT. 5/16" PL. WELDED TO UNDERSIDE OF NEW BEAM TO SUPPORT EXIST. VENEER. VERIFY REQUIRED WIDTH IN FIELD. EXTEND PLATE TO WITHIN ⅛" OF EACH END OF CMU OPENING.
DASHED LINES INDICATE CMU WALL AND VENEER TO BE REMOVED BELOW NEW BEAM AFTER SUPPORTING EXIST. WORK TO REMAIN

① SECTION
3/4"=1'-0"


NOTE: EXIST. CMU ABOVE BEAM NOT SHOWN FOR CLARITY
SEE PLAN
3/8" STIFFENER PL NS & FS OF WEB
BEAM, SEE PLAN
3/16
1/2" CAP PL W/ (4) 3/4"ø A325 BOLTS
COL., SEE PLAN
1"
3/8" SPLICE PL NS & FS W/ (4) 3/4"ø A325 BOLTS

② BEAM SPLICE SECTION
3/4" = 1'-0"


NOTE: EXIST. CMU ABOVE BEAM NOT SHOWN FOR CLARITY
BEAM, SEE PLAN
TYP. 3/16
12" BRG. TYP.
1x7 1/2x12 PL W/ (2) 1/2"ø HILTI "HIT HY20" EPOXY ANCHORS W/ 3" EMBEDMENT IN GROUTED BLOCKS
3 COURSES
1
1
NOTE: FULLY GROUT ALL EXIST. BLOCK CELLS FALLING FULLY OR PARTIALLY IN SHADED AREA

③ LINTEL BEARING AT EXIST. BLOCK
3/4" = 1'-0"

LINTEL SCHEDULE

MARK	SIZE	BEARING
L1	W12x40	12" ON CMU
L2	W14x43	EXIST. COLUMN

1	STRUCTURAL DETAILS	SCALE:1/8"=1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

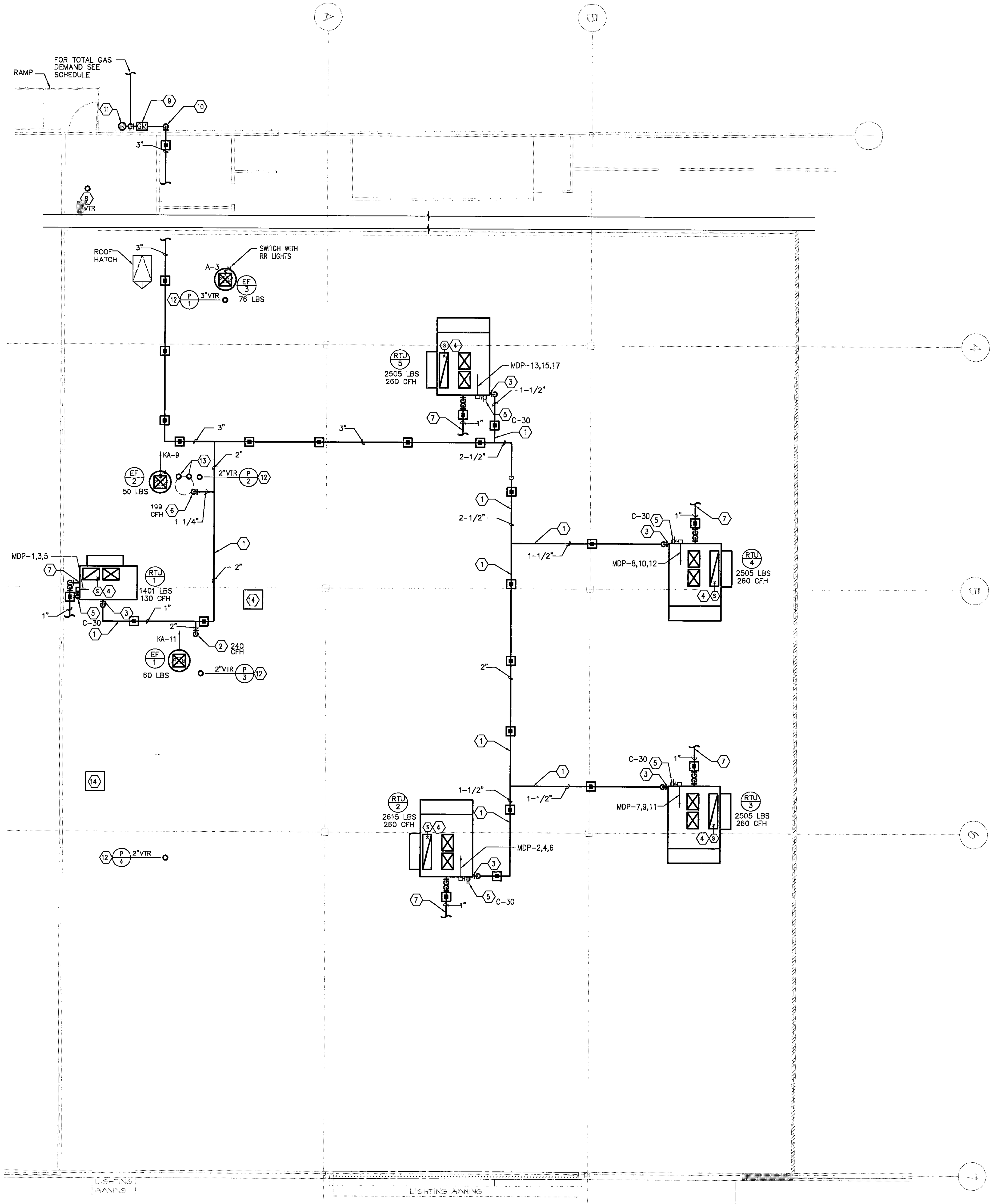
CHUCKECHEESE'S
3001 COLLEGE AVE
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

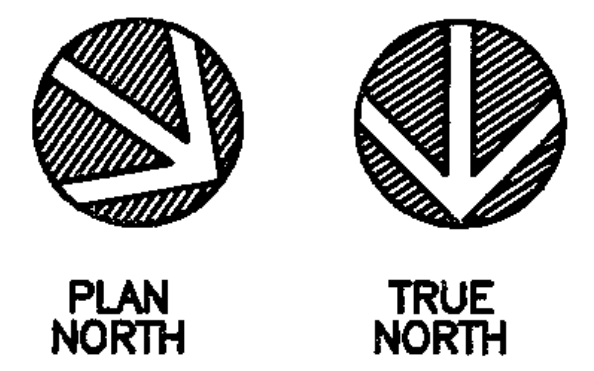
REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: AP
CHECKED BY: AP
ISSUE DATE:
04/07/10

STRUCTURAL DETAIL

S6.0





01 MECHANICAL ELECTRICAL PLUMBING ROOF PLAN

SCALE:1/8"=1-0"

CODED NOTES

1. LOW PRESSURE GAS PIPING ON ROOF. PROVIDE PIPE SUPPORTS. SEE PIPE SUPPORT DETAIL 05/P3.2. PAINT EXPOSED PIPING ON ROOF WITH ZINC RICH GALVANIZING PAINT FOR CORROSION PROTECTION. A
2. 2" LOW PRESSURE GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO PIZZA OVEN. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 08/P3.2.
3. LOW PRESSURE GAS CONNECTION TO ROOF TOP UNIT (TYPICAL). SEE GAS CONNECTION DETAIL 15/P3.2.
4. LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN RETURN AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SIGNAL FIRE ALARM PANEL AND SHUT DOWN RTU.
5. NEMA 3R DISCONNECT SWITCH AND WP, GFCI SHALL BE PROVIDED WITH THE RTU.
6. GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 05/P3.4.
7. CONDENSATE CONNECTION AT RTU (TYPICAL). SEE DETAIL 10/P3.2. PROVIDE UV RATED PVC PIPING.
8. 4" VENT THRU ROOF FROM GREASE INTERCEPTOR. INSTALL 10'-0" CLEAR FROM ANY FRESH AIR INTAKE ON ROOF (RTU's, SUPPLY AIR FANS, ETC.).
9. PLUMBING CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR AND GAS UTILITY COMPANY TO HAVE NEW GAS METER INSTALLED AT BUILDING. SERVICE DELIVERY PRESSURE TO BE SET AT 4oz./7"wc. SEE DETAIL 04/P3.2. REFER TO ARCHITECTURAL SITE PLAN DRAWING – A0.1 FOR INFORMATION. CONTACT: RANDY DRAKE AT ARKANSAS WESTERN GAS – 1811 E. BORICK DR. FAYETVILLE, AR 72703, 479-582-8604
11. 4oz. LOW PRESSURE GAS SUPPLY PIPING UP ON EXTERIOR WALL TO ROOF. SLEEVE GAS PIPING THRU PARAPET WALL (SEE DETAIL 07/P3.4) ONTO ROOF. PAINT PIPING ON EXTERIOR OF WALL TO MATCH BUILDING.
11. GAS REGULATOR AT GAS METER, REGULATE PRESSURE DOWN TO LOW PRESSURE 4oz./7"wc. COORDINATE WITH GAS COMPANY, SEE UTILITY CONTACTS ON SHEET P1.1.
12. PLUMBING VENT THRU ROOF. INSTALL 10'-0" CLEAR FROM ANY FRESH AIR INTAKE ON ROOF (RTU's, SUPPLY AIR FANS, ETC.). SEE VENT DETAIL 09/P3.2.
13. 3" WATER HEATER FLUE AND COMBUSTION AIR VENTS THRU ROOF PER MANUFACTURER, SEE INSTALLATION MANUAL. FLUE AND COMBUSTION AIR VENTS SHALL BE AT LEAST 10'-0" AWAY FROM OUTSIDE AIR INTAKES. FIELD VERIFY LOCATION.
14. PROPOSED LOCATIONS OF CONDENSING UNITS FOR WALK-IN COOLERS AND ICE MACHINE. REFER TO SHEET E3.0 & E5.0, FOR POWER REQUIREMENTS.

GAS DEMAND SCHEDULE

TAG	ITEM	DEMAND
–	RTU-1	130 CFH
–	RTU-2	260 CFH
–	RTU-3	260 CFH
–	RTU-4	260 CFH
–	RTU-5	260 CFH
K13	PIZZA OVEN 2 @ 120	240 CFH
–	GWH	199 CFH
–	TOTAL =	1609 CFH

LOW PRESSURE GAS

GAS PIPING SYSTEM SIZED FROM THE 2000 IFGC, CHAPTER 4, SECTION 402 (IFGC), TABLE 402.3 (6) BASED ON 290' (MAX.) TOTAL LENGTH UNDER (1) POUND 4 OZ./7" WC FROM GAS METER TO RTU-2.

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ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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MEP ROOF PLAN

MEP1.1

SECTION 11400 - FOOD SERVICE EQUIPMENT INSTALLATION

1. SECTION INCLUDES: INSTALLATION OF OWNER PROVIDED FOOD SERVICE EQUIPMENT. THIS EQUIPMENT SHALL BE FURNISHED, ASSEMBLED, AND SET IN PLACE UNDER SEPARATE CONTRACT, WITH FINAL UTILITY CONNECTION BY GENERAL CONTRACTOR.

2. RELATED SECTIONS

   A. MECHANICAL AND ELECTRICAL SERVICES AND FINAL CONNECTIONS TO EQUIPMENT.

3. OWNER WILL PROVIDE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CONTRACTOR'S USE.

4. OWNER WILL PROVIDE EQUIPMENT MANUFACTURER'S OPERATION AND MAINTENANCE DATA FOR CONTRACTOR'S USE.

5. COORDINATE SIZE OF ACCESS AND ROUTE TO PLACE OF INSTALLATION.

6. OWNER PROVIDED (BY OWNER)

   A. EQUIPMENT SCHEDULED ON THE DRAWINGS.
   B. MECHANICAL REFRIGERATION SYSTEMS, INCLUDING COMPRESSOR UNITS, CONDENSERS, EVAPORATOR COILS, AND CONTROL VALVES.
   C. MOTOR STARTERS.
   D. WALK-IN REFRIGERATOR/FREEZER THERMOSTATS.
   E. STAINLESS STEEL TRIM STRIPS, SUPPORTS AND CONNECTIONS, ATTACHMENT DEVICES, AND ACCESSORIES.

7. CONTRACTOR PROVIDED: REFRIGERANT SYSTEM INSTALLATION

   A. REFRIGERANT LINES: TYPE "L" HARD COPPER TUBING.
   B. FITTINGS: WROUGHT COPPER OR BRASS DESIGNED FOR USE WITH HIGH TEMPERATURE SOLDER.
   C. PIPING JOINTS: MADE WITH SILVER SOLDER (Sil-Fos)
   D. PIPING: PROPERLY SUSPENDED FROM AN ANCHOR TO THE STRUCTURE WITH ADJUSTABLE HANGERS 6' O.C. MAXIMUM.
   E. SUCTION LINES: SIZE TO HAVE MAXIMUM PRESSURE DROP OF TWO POUNDS IN MEDIUM TEMPERATURE SYSTEMS, ONE POUND IN LOW TEMPERATURE SYSTEM.
   F. LIQUID LINES: SIZED TO GIVE MAXIMUM PRESSURE TO PREVENT TRAPPING OF OIL. RIGID INSULATION ON ALL SUCTION LINES TO BE ARMAFLEX INSULATION BY ARMSTRONG - 1" THICK AT MEDIUM TEMP., $1\frac{1}{2}$" THICK AT LOW TEMP. REFRIGERANT LINES IN PVC OR EMT CONDUIT TO BE SEALED AT BOTH ENDS WITH DOW CORNING 3-6548 SILICONE RTV FOAM.
   G. EVACUATION AND CHARGING: AFTER COMPLETION OF THE PRESSURE TEST, THE SYSTEM SHALL BE EVACUATED USING AN APPROVED AUXILLIARY VACUUM PUMP. CONNECTIONS FOR EVACUATIONS TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

8. DELIVERY, HANDLING AND STORAGE

   A. DELIVERY: UPON RECEIVING EQUIPMENT, CHECK CRATES/CARTONS IDENTIFICATION LABELS WITH RECEIVING P.O.; ASSURE CORRECT ITEM HAS BEEN RECEIVED.
   B. HANDLING: UNCRATE EQUIPMENT IN ORGANIZED MANNER. TAKE CARE NOT TO MISPLACE LOOSE PARTS, ACCESSORIES, ASSEMBLY AND OPERATING INSTRUCTIONS, AND WARRANTY CARDS. KEEP UTILITY HOOKUP NOTES AND TAGS ON EQUIPMENT UNTIL AFTER CONNECTIONS ARE MADE. ASSEMBLE IN WORKMANSHIP MANNER IN ACCORD WITH MANUFACTURER'S DIRECTIONS, TAKING CARE TO MAKE SURE FASTENERS ARE TIGHT AND COMPONENTS ARE ALIGNED AND SQUARE.
   C. STORAGE: STORE EQUIPMENT CLEAR OF FLOOR IN MANNER TO PREVENT WARPING, TWISTING OR SAGGING.

9. INSTALLATION

   A. INSTALL ITEMS IN ACCORD WITH MANUFACTURER'S INSTRUCTIONS AND FABRICATOR'S SHOP DRAWINGS. INSTALL IN ACCORD WITH LOCAL GOVERNING HEALTH, BUILDING, AND SAFETY AND FIRE PROTECTION CODES AND REGULATIONS AND NEMA, UL, AGA, ASME, AND NFPA.
   B. ELECTROLYSIS: INSULATE TO PREVENT ELECTROLYSIS BETWEEN DISSIMILAR METALS. PROVIDE SEALANT TO ACHIEVE CLEAN JOINT WITHOUT CREVICES.

   C. EQUIPMENT

      1. GENERAL: SET IN PLACE AND POSITION PER KITCHEN EQUIPMENT PLAN; READY FOR UTILITY HOOK UP. AFTER UTILITY HOOKUPS ARE MADE, LEVEL AND SECURE DISHTABLES TO SLOPE TOWARD DISHWASHER. COMPLETELY CLOSE AND SEAL GAPS, JOINTS AND SEAMS BETWEEN FIXTURES/EQUIPMENT AND WALLS, CEILING AND FLOORS WITH STAINLESS STEEL TRIM STRIPS AND/OR CLEAR SILICONE SEALANT. DO NOT USE SEALANT IN JOINTS OR SEAMS OVER $\frac{3}{16}$ INCH WIDE.
      2. REFRIGERANT PIPING: INSTALL COPPER TUBING AND FITTINGS. CUT WITH PIPE CUTTERS AND RESHAPE WITH SIZING TOOL. EXPOSE PIPING TO VIEW AS REQUIRED BY AMERICAN STANDARD SAFETY CODE FOR MECHANICAL REFRIGERATION. FOR EXPOSED AREAS OR ACCESSIBLE FURRED CEILING SPACES, USE HARD COPPER TUBING. RUN EXPOSED TUBING IN SUCH MANNER AS TO PREVENT DAMAGE FROM ACTIVITIES IN AREAS; OTHERWISE RUN TUBING IN PIPE OR CONDUIT.

         a. SUCTIONLINES: SIZE TO GIVE MAX PRESSURE DROP FROM EVAPORATOR TO MACHINE OF 2 LB. FOR HIGH TEMP SYSTEM AND 1 LB. FOR FREEZER SYSTEM, ALLOWING GAS VELOCITIES OF NOT LESS THEN 750 RPM IN HORIZONTAL RUNS AND 1500 RPM IN VERTICAL RISERS. SIZE LIQUID LINES TO GIVE MAX. PRESSURE DROP OF 3 LBS. FROM RECEIVER TO EVAPORATOR.
         b. TUBING RUNS: ELEVATION TO PREVENT TRAPPING OF OIL.
         c. TIES: SECURE SUCTION AND LIQUID LINES FOR EACH SYSTEM TOGETHER, EXCEPT WHEN RUN THROUGH CONDUIT; 24 INCH INTERVALS WITH BLACK PLASTIC ELECTRICAL TAPE WITH 2 WRAPS MINIMUM.
         d. INSULATION: INSULATE REFIRGERANT SUCTION LINES OUTSIDE OF REFRIGERATED COMPARTMENTS BACK TO COMPRESSORS.
         e. HANGERS AND SUPPORTS: PROVIDE ADJUSTABE HANGERS, ANCHORS OR STRAPS REQUIRED FOR PROPER SUPPORT OF PIPING NOT RUN IN CONDUIT. SPACE HANGERS NOT TO EXCEED 10 FEET O.C. AND CLOSER WHERE REQUIRED FOR PROPER SUPPORT OF SMALL PIPING. PROVIDE INSULATED REFRIGERANT PIPING WITH APPROVED TYPE SLEEVES AT HANGER POINTS.
         f. WALKIN COOLER FREEZER BOXES: TRANSIT LEVEL FLOOR SCREENS PRIOR TO WALL AND CEILING PANEL ERECTION. SEAL WALL AND/OR CEILING PENETRATIONS FOR ELECTRICAL CONDUITS AND REFRIGERATION LINES, ETC., TO PREVENT FROST AND CONDENSATE BUILD-UP. ELECTRICAL CONDUITS; ON EXTERIOR OF BOX.
         g. OIL SEPARATORS: PROVIDE LOW TEMEPRATURE OPERATIONS OF SYSTEM, RETURN LINE CONNECTED TO TOP OF CRANKCASE ABOVE OIL LEVEL. PROVIDE EXPOSED OIL RETURN LINES WITH SHUT-OFF VALVES OF PACKLESS STEM TYPE.
         h. EVAPORATOR COILS: SUPPORT BY HANGERS UTILIZING FISH PLATES ON TOP OF WALK-IN UNIT A FULL 4 INCHES CLEAR FROM UNDERSIDE OF CEILING PANELS.
         i. REMOTE BEER SYSTEMS: INSTALLED BY LOCAL MANUFACTURER'S REPRESENTATIVE INSTALLER.

DIVISION 15 MECHANICAL
SECTION 15100 GENERAL MECHANICAL REQUIREMENTS

1. SCOPE OF WORK
   A. THE WORK TO BE ACCOMPLISHED UNDER THIS SECTION OF SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, SUPERVISION AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF AIR CONDITIONING, HEATING, VENTILATING, PLUMBING, FIRE PROTECTION TOGETHER WITH ALL THE NECESSARY AUXILIARIES AND APPURTENANCES. GENERALLY THE WORK SHALL CONSIST OF, BUT IS NOT LIMITED TO, ITEMS LISTED IN THE FOLLOWING PARAGRAPHS.
   B. AIR CONDITIONING AND HEATING, HOODS AND EXHAUST FANS BY OWNER, INSTALLED BY CONTRACTOR.: FACTORY BUILT AIRCONDITIONING AND HEATING UNITS OF THE SINGLE ZONE ROOFTOP PACKAGE, FILTERS, FANS, MOTORS, DRIVES, HVAC UNITS, HOODS, ETC.
   C. AIR DISTRIBUTION SYSTEM: SHEET METAL DUCTWORK, VOLUME DAMPERS, SPLITTER DAMPERS, TURNING VANES, AIR CONTROL DEVICES, GRILLES, REGISTERS, DIFFURSERS, FLEXIBLE DUCT, INSTALL PER SMACNA STANDARDS. FIBERGLASS DUCT BOARD IS NOT AN ACCEPTABLE ALTERNATIVE.
   D. PLUMBING: SOIL, WASTE AND VENT PIPING, DOMESTIC HOT AND COLD WATER DISTRIBUTION, HOT WATER GENERATORS, FIXTURES, GREASE TRAPS, VENTS, CONDENSATE LINES OF HVAC AND MISCELLANEOUS EQUIPMENT, UNDERFLOOR OR OVER HEAD SODA, REFRIGERANT LINE CONDUIT AND/OR ROOF LEADERS.
   E. MISCELLANEOUS SUPPLY AND EXHAUST FANS, MAKE-UP AIR UNITS, TEMPERATURE CONTROLS, THERMAL INSULATION, APPARATUS FOUNDATIONS AND SUPPORTS, PIPE HANGERS AND SUPPORTS AND ALL NECESSARY TOOLS, ACCESSORIES AND APPLIANCES AS REQUIRED TO MAKE ALL SYSTEMS COMPLETE AND OPERATIVE.

2. PRODUCTS AND EXECUTION:
   A. ELECTRICAL PROVISIONS FOR MECHANICAL WORK: EXCEPT FOR SUCH ITEMS AS ARE NORMALLY WIRED UP AT THEIR POINT OF MANUFACTURE AND SO DELIVERED, AND UNLESS SPECIFICALLY NOTED TO THE CONTRARY HEREIN, THE ELECTRICAL SUBCONTRACTOR WILL DO ALL ELECTRIC WIRING OF EVERY CHARACTER FOR POWER SUPPLY, LINE VOLTAGE CONDUIT AND LOW VOLTAGE CONTROL WIRING AND CONDUIT. THE ELECTRICAL SUBCONTRACTOR SHALL ERECT ALL MOTORS IN PLACE READY FOR CONNECTION. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY SUPPLIED WITH STARTERS INSTALLED, (HVAC UNITS, ETC) AT THEIR POINT OF MANUFACTURE. ALL OTHER STARTERS NOT FURNISHED WITH EQUIPMENT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE ELECTRICAL SUBCONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY. THE OWNER AND OTHER CONTRACTORS SHALL FURNISH WITH EACH ITEM REQUIRING ELECTRICAL CONNECTIONS, THE NECESSARY INSTRUCTIONS AND WIRING DIAGRAMS TO THE ELECTRICAL SUBCONTRACTOR. THE ELECTRICAL SUBCONTRACTOR SHALL REFER TO THE SPECIFICATIONS TO DETERMINE THE SCOPE OF THE WORK.
   B. CHASES AND OPENINGS; VARIOUS DIVISIONS, HOWEVER, THE LOCATIONS OF ALL INSERTS AND OPENINGS SHALL BE DETERMINED AND COORDINATED WITH OTHER DIVISIONS IN AMPLE TIME TO AVOID CUTTING NEW CONSTRUCTION.
   C. ROOF FLASHING OF DUCTS AND CURBS: DIVISION 7, HOWEVER, PLUMBING VENT FLASHING AND COUNTER FLASHING SHALL BE PROVIDED UNDER THIS DIVISION AND PER ROOF MANUFACTURER RECOMMENDATIONS.
   D. OPENINGS IN ROOF DECK: WHERE PIPING, DUCTS, VENTS OR ANY OTHER MECHANICAL APPARATUS PENETRATES ROOF DECK AND OPENING IS NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS, OBTAIN ARCHITECT'S APPROVAL OF LOCATION AND SIZE. HAVE LANDLORD APPROVED ROOF DECK INSTALLER DO CUTTING AND PAY INSTALLER COST OF CUTTING AND FLASHING OPENING.

3. PERMITS, FEES AND CODE REGULATIONS:
   A. PERMITS: OBTAIN ALL PERMITS REQUIRED TO DO THIS WORK AND PAY ANY FEES REQUIRED TO SUCH PERMITS.
   B. REGULATIONS: CONFORM TO ALL STATE AND LOCAL ORDINANCES AND RULINGS APPLICABLE TO THIS WORK AND IN EFFECT AT THE TIME THE WORK IS PERFORMED. APPROVAL OF VARIOUS INSURING AND INSPECTION AUTHORITIES SHALL BE OBTAINED. WHEN REQUESTED, COMPETENT EVIDENCE OF COMPLIANCE, WITH APPLICABLE CODES, SHALL BE FURNISHED.
   C. CONFLICTS: IF A CONFLICT EXISTS BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ANY ABOVE MENTIONED AUTHORITY, THE CONTRACTOR SHALL ADVISE THE ARCHITECT/ENGINEER IN WRITING FIVE (5) DAYS PRIOR TO PRESENTING PROPOSAL OR INCLUDE ALL COST REQUIRED TO MEET REGULATIONS.

4. STRUCTURAL AND SPACE CONDITION:
   A. THE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO ENCOMPASS A SYSTEM THAT WILL NOT INTERFERE WITH THE STRUCTURAL, ELECTRICAL AND ARCHITECTURAL DESIGN OF THE BUILDING, AND WHICH WILL FIT INTO THE SEVERAL AVAILABLE SPACES. AS IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS AND OBSTRUCTIONS OF STRUCTURAL CONDITIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS AND INTERFERENCES WITH ALL OTHER TRADES, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.
   B. DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSOFRMERS)WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT OR WITHIN 36" HORIZONTALLY OF SAME SPACE.

5. DRAWINGS:
   A. THE DRAWINGS AS PREPARED ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. CHANGES FROM THE DRAWINGS NECESSARY TO FIT THE WORK OF VARIOUS TRADES, TO CONFORM TO EQUIPMENT ACTUALLY BEING INSTALLED, OR TO CONFORM TO THE RULES OF AUTHORITIES HAVING JURISDICTION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

6. AS-BUILT DRAWINGS:
   A. PROVIDE AND KEEP UP-TO-DATE, A COMPLETE RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY WITH DATED NOTATIONS, AND INDIVIDUAL WHO APPROVED CHANGES, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET

7. PROTECTION OF MATERIALS:
   A. TAKE SUCH PRECAUTIONS AS ARE NECESSARY TO PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE.

8. WORKMANSHIP:
   A. LABOR SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADES.

9. MATERIALS AND EQUIPMENT:
   A. ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY. WHERE MANUFACTURER'S NAMES AND MODEL NUMBERS ARE MENTIONED IN THE SPECIFICATIONS, AND/OR DRAWINGS, IT IS INTENDED TO SET A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED TO LIMIT COMPETITION UNLESS SPECIFICALLY STATED IN DRAWINGS OR TO DISCRIMINATE AGAINST "EQUAL" PRODUCTS OF OTHER MANUFACTURER. THE WORDS "OR APPROVED EQUAL" ARE TO FOLLOW EACH MATERIAL SPECIFICATION WHERE A SUBSTITUTION WILL BE CONSIDERED. ANY PROPOSED SUBSTITUTION MUST BE SUBMITTED FOR COMPARISON AND IT IS UNDERSTOOD THAT THE ENGINEER SHALL BE THE SOLE JUDGE IN THE MATTER. CONTRACTOR MUST INCLUDE COST OF ALL STRUCTURAL CHANGES TO FACILITATE ALTERATIONS IN BID COST.

   B. GUARANTEE: FURNISH WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM, TO THE OWNER, AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, AND OPERATING EQUIPMENT; FURTHER, GUARANTEE TO REBALANCE AND ADJUST ENTIRE SYSTEM OR ANY PART THEREOF, AS REQUIRED FOR PERFECT OPERATION FOR A PERIOD OF AT LEAST ONE (1) YEAR AFTER ACCEPTANCE, INCLUDING COST OF REFRIGERANT CHARGE. REPAIR, REPLACE AND MAKE SATISFACTORILY OPERATIVE ANY AND ALL DEFECTIVE ITEMS AND, WORK HOLDING OWNER FREE FROM ANY COST AND LIABILITY IN CONNECTION THEREWITH FOR THE TERM OF GUARANTEE. THE MANUFACTURER SHALL PROVIDE A WARRANTY ON HIS UNIT COMPRESSORS FOR A PERIOD OF FIVE (5) YEARS AND HEAT EXCHANGER FOR A PERIOD OF 10 YEARS.

5. VIBRATIONS AND NOISE:
   A. EACH OF THE VARIOUS PIECES OF EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE VIBRATION OR NOISE. ALL ROTATING EQUIPMENT SHALL BE IN STATIC AND DYNAMIC BALANCE AND SHALL BE MOUNTED, SUPPORTED AND FASTENED SO THAT NO EQUIPMENT VIBRATION WILL BE TRANSMITTED TO THE BUILDING. THE SPECIFIC SIZE OF VIBRATION ISOLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. IF, IN THE OPINION OF THE ARCHITECT, OBJECTIONABLE VIBRATION OR TRANSMISSION THEREOF TO THE BUILDING OCCURS, THE CONTRACTOR SHALL EXECUTE REMEDIAL MEASURES AS MAY BE NECESSARY TO ELIMINATE SUCH UNSATISFACTORY OPERATING CONDITIONS AT THE CONTRACTOR'S EXPENSE.

11. OPERATING INSTRUCTIONS:
    A. BROCHURES: WRITTEN INSTRUCTIONS, ASSEMBLED AND BOUND IN BROCHURES, SHALL BE FURNISHED IN TRIPLICATE FOR OPERATING AND MAINTAINING ALL EIQUPMENT FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS. INSTRUCTIONS SHALL INCLUDE ALL NORMAL ADJUSTMENTS, A LIST OF LUBRICATING POINTS WITH THE TYPE AND FREQUENCY OF LUBRICATION REQUIRED. PARTS LISTS SHALL BE FURNISHED.
    B. DEMONSTRATION: UPON COMPLETION AND ACCEPTANCE OF WORK BY THE OWNER, THE CONTRACTOR SHALL BE REQUIRED TO INSTRUCT THE OPERATING PERSONNEL IN THE OPERATION OF THE ENTIRE INSTALLATION. TWO SESSIONS SHALL BE HELD, ONE FOR SUMMER OPERATION AND ONE FOR WINTER OPERATION, BOTH IN THE RESPECTIVE SEASONS.
    C. EQUIPMENT LOCATION AND USE: PROVIDE, IN TRIPLICATE, SUITABLY BOUND OPERATING BOOK CONTAINING ALL EQUIPMENT, ITS LOCATION, USE AND DESCRIPTION, AND BUILDING SCHEMATICS. SUBMIT TO ARCHITECT FOR APPROVAL BEFORE PRINTING IN FINAL FORM.
    D. CONTRACTOR SHALL INSTRUCT MANAGER ON THE PROGRAMMING OF ALL THERMOSTATS. THIS SHALL BE A HANDS-ON EXPLANATION. CONTRACTOR SHALL ALSO PROVIDE MANAGER WITH BOOKLET SHOWING PROGRAMMING INSTRUCTIONS.

12. FINAL INSPECTIONS:
    A. SCHEDULE: UPON COMPLETION OF CONTRACT, THERE SHALL BE A FINAL INSPECTION OF THE COMPLETED INSTALLATION. PRIOR TO THIS INSPECTION, ALL WORK UNDER THIS DIVISION SHALL HAVE BEEN COMPLETED, TESTED, BALANCED, AND ADJUSTED AND IN FINAL OPERATING CONDITION.
    B. PERSONNEL: A QUALIFIED PERSON REPRESENTING THE CONTRACTOR MUST BE PRESENT AT THIS FINAL INSPECTION TO DEMONSTRATE THE SYSTEM AND PROVE THE PERFORMANCE OF THE EQUIPMENT.

13. CUTTING AND PATCHING:
    A. WHERE CUTTING AND PATCHING BECOMES NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT, OR SHOULD IT BECOME NECESSARY TO REPAIR ANY DEFECTS THAT MAY APPEAR IN PATCHING UP TO THE EXPIRATION OF THE GUARANTEE, SUCH CUTTING SHALL BE DONE UNDER THE SUPERVISION OF THE OWNER BY THE TRADE OF SUBCONTRACTOR WHOSE WORK IS TO BE DISTURBED. AFTER THE NECESSARY WORK HAS BEEN COMPLETED, THE TRADE OF SUBCONTRACTOR WHOSE WORK HAS BEEN DISTURBED SHALL REPAIR DAMAGE. THE COST OF ALL CUTTING AND PATCHING SHALL BE PAID BY THE TRADE OF SUBCONTRACTOR REQUIRING IT TO BE DONE.

14. EXCAVATIONS AND BACKFILLING:
    A. PROVIDE NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. TRENCHES FOR UNDERGROUND PIPING AND CONDUITS SHALL BE EXCAVATED TO REQUIRED DEPTHS WITH BELL HOLES PROVIDED AS NECESSARY TO ENSURE UNIFORM BEARING. CARE SHOULD BE TAKEN TO EXCAVATE BELOW DEPTH, AND ANY EXCAVATION BELOW DEPTH SHALL BE REFILLED WITH SAND OR GRAVEL FIRMLY COMPACTED. WHERE ROCK OR HARD OBJECTS ARE ENCOUNTERED, THEY SHALL BE EXCAVATED TO A GRADE SIX INCHES (6") BELOW AS SPECIFIED. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED TO GRADE WITH APPROVED MATERIAL, WELL-TAMPED OR PADDLED COMPACTLY IN PLACE. DO NOT PROCEED WITH BACKFILL OPERATIONS UNTIL PIPING HAS BEEN INSPECTED BY THE OWNER OR BY THE LOCAL INSPECTOR OF THE MUNICIPALITY IN WHICH THE WORK IS BEING PERFORMED. DO NOT PERFORM BACKFILLING OPERATIONS EXCEPT IN THE PRESENCE OF THE OWNER OR INSPECTOR. ALL PIPING OUTSIDE THE BUILDING SHALL BE INSTALLED BELOW THE FROST LINE. WHERE STREETS, SIDEWALKS, ETC. ARE DISTURBED, CUT OR DAMAGED BY THIS WORK, THE EXPENSE OF REPAIRING SAME IN A MANNER APPROVED BY THE OWNER SHALL BE OF PART OF THIS CONTRACT.

15. GUARANTEE:
    A. THE GUARANTEE PROVISION OF THIS SPECIFICATION REQURIES PROMPT REPLACEMENT OF ALL DEFECTIVE WORKMANSHIP AND MATERIALS OCCURRING WITHIN ONE YEAR OF JOB ACCEPTANCE. THIS INCLUDES ALL WORK REQUIRED TO REMOVE AND REPLACE THE DEFECTIVE ITEM AND TO MAKE ALL NECESSARY ADJUSTMENTS TO RESTORE THE ENTIRE INSTALLATION TO ITS ORIGINAL SPECIFIED OPERATING CONDITION AND FINISH AT THE TIME OF ACCEPTANCE.

16. FIRE STOPPING

    A. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES, DUCT, CONDUITS ETC., INSTALLED BY HIM AT ALL FIRE WALLS. FIRESTOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN TRAINED BY THE MANUFACTURER, OR MANUFACTURER'S REPRESENTATIVE, IN THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP SYSTEMS.
    B. FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS BY A RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM TO THE FOLLOWING GOVERNING CODES: LOCAL BUILDING CODE, STATE BUILDING CODE, NFPA 101 - LIFE SAFETY CODE AND NFPA 70 - NATIONAL ELECTRIC CODE.
    C. PENETRATION:
       1. CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT BOND OR INSTALLATION.
       2. REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT & SEALERS AS REQUIRED.
       3. INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.
    D. APPLICATION
       1. PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
       2. EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRESTOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND OPENINGS.
       3. TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
       4. PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO TRAFFIC.
    E. PROVIDE INTUMESCENT SEALANTS AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO THE METACAULK SERIES 880 AND 950.
    F. FIRESTOPPING BY DOW CORNING, 3M, HILTI OR METACAULK MAY FURNISHED AT THE CONTRACTOR'S OPTION.

SECTION 15400 PLUMBING

1. SCOPE OF WORK:
   A. FURNISHING OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION SERVICES, ETC. NECESSARY TO COMPLETE THE INSTALLATION OF THE PLUMBING SYSTEM AND AS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT.
   B. ALL HOT AND COLD WATER SYSTEMS WITH COMPLETE CONNECTIONS FROM THE WATER METER, OR LANDLORD PROVIDED STUB-IN, TO ALL PLUMBING FIXTURES AND EQUIPMENT REQUIRING WATER CONNECTIONS. THESE SYSTEMS WILL BE COMPLETE WITH CONTROLS, VALVES, EQUIPMENT, DEVICES AND INSULATION.
   C. ALL SOIL, WASTE, AND VENT SYSTEMS OUTSIDE AND INSIDE THE BUILDING AND SEWER CONNECTIONS TO MUNICIPAL SYSTEM OR LANDLORD PROVIDED STUB-IN, AS INDICATED ON DRAWINGS.
   D. FURNISH AND SET PLUMBING FIXTURES, INCLUDING ALL THE REQUIRED TRIM AND SUPPORTS.
   E. TRENCHING, PIPE BEDDING AND BACKFILLING.
   F. ALL ROUGH-IN AND FINAL CONNECTION TO EQUIPMENT IN THE KITCHEN, BAR AND SERVICE AREAS, IF INDICATED ON THE DRAWINGS, INCLUDING NECESSARY TRAPS AND MISCELLANEOUS ITEMS AS REQUIRED. COORDINATE WITH OWNER AND K.E.C.
   G. FURNISH ALL FINAL PLUMBING CONNECTIONS TO HEATING AND AIR CONDITIONING EQUIPMENT, AND KITCHEN BAR EQUIPMENT INCLUDING CONDENSATE DRAINS, INDIRECT WASTE AND GAS PIPING. SEE KITCHEN DRAWINGS FOR REQUIREMENTS.
   H. METERS AND UTLITY CONNECTIONS:
      1. WATER: COORDINATE WORK WITH THE LOCAL WATER COMPANY OF LANDLORD. FURNISH ALL LABOR AND/OR MATERIAL (NOT FURNISHED BY THE WATER COMPANY), WHICH IS REQUIRED TO CONNECT TO EXISTING LINE AND/OR SET METER. INSTALL ALL PERMANENT WATER SUPPLY LINES FROM THE POINT OF CONNECTION AND COMPLETE THE WORK AS SHOWN, ALL IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL WATER COMPANY. OWNER SHALL PAY TAP FEES (IF REQUIRED). PLUMBING CONTRACTOR SHALL PAY ALL WORK RELATED INSPECTION FEES BY AUTHORITY HAVING JURISDICTION (IF REQUIRED).
      2. SEWER CONNECTIONS: COORDINATE WORK WITH THE LANDLORD AND/OR LOCAL UTILITY COMPANY. ALL WORK AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY. TAP FEES SHALL BE PAID BY OWNER (IF REQUIRED). PLUMBING CONTRACTOR SHALL PAY ALL WORK RELATED INSPECTION FEES BY AUTHORITY HAVING JURISDICTION (IF REQUIRED).
      3. GAS: COORDINATE WORK WITH LOCAL UTLITY AND FURNISH ALL LABOR AND/OR MATERIALS (NOT FURNISHED BY UTILITY) WHICH IS REQUIRED TO PROVIDE A WORKING UTILITY FOR OWNER, INCLUSIVE OF METER AND/OR REGULATOR. FURNISH SYSTEM FROM TAPPING POINT TO AND IN THE BUILDING AS REQUIRED AND SHOWN ON DRAWINGS. OWNER SHALL PAY TAP FEES (IF REQUIRED). PLUMBING CONTRACTOR SHALL PAY ALL WORK RELATED INSPECTION FEES (IF REQUIRED).
         a. GAS PIPING TO HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT, AND WATER HEATER.
         b. INSTALL FIRE SUPPRESSION AND VALVES.

2. SHOP DRAWINGS:
   A. WITHIN 15 DAYS AFTER AWARD OF CONTRACT, AND BEFORE ANY PLUMBING MATERIALS ARE DELIVERED TO THE JOB SITE, SUBMIT TO THE OWNER THREE (3) COMPLETE SHOP DRAWINGS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01300 OF THESE SPECIFICATIONS, INCLUDING ALL PLUMBING FIXTURES, TRIM, DRAINS, CLEANOUTS, PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, EQUIPMENT AND DEVICES PROPOSED TO BE FURNISHED AND INSTALLED. SHOP DRAWINGS SHALL NOT BE REVIEWED UNLESS THEY BEAR THE REVIEW STAMP OF THE GENERAL CONTRACTOR.

3. PRODUCT HANDLING:
   A. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF, AND AT NO ADDITIONAL COST TO THE OWNER.

4. EXAMINATION OF THE SITE:
   A. ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS, INCLUDING LOCAL RULES AND REGULATIONS, THEREON AND/OR THEREIN. ALL PROPOSALS SHALL HAVE TAKEN INTO CONSIDERATION ALL CONDITIONS THAT MAY AFFECT THE WORK UNDER THIS CONTRACT. LACK OF THIS INFORMATION WILL NOT BE CONSIDERED AS JUSTIFICATION FOR EXTRA COST OR ALLOWANCES TO THE CONTRACT PRICE.

5. GUARANTEE:
   A. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE GUARANTEED TO BE FREE OF DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
   B. UPON NOTICE RECEIVED FROM THE OWNER, ARCHITECT OR ENGINEER, OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT DURING THE GUARANTY PERIODS, THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL PROMPTLY REPLACE THE AFFECTED PART OR PARTS WITH NEW PARTS. ALL LABOR REQUIRED TO PERFORM GUARANTEED SHALL BE INCLUDED AS PART OF THE COMPLETE WARRANTY.

6. PRODUCTS:
   A. DESCRIPTION:
      1. SOIL, WASTE, AND VENT PIPING: BELOW FLOOR TO 5'-0" OUTSIDE BUILDING AND YARD PIPING SHALL BE A.B.S. OR P.V.C. SCHEDULE 40 PIPE AND FITTINGS IF APPROVED BY LOCAL AUTHORITY, OR STANDARD WEIGHT COATED CAST IRON SOIL PIPE AND CAST IRON/NEOPRENE GASKET FITTINGS. YARD PIPING, WHERE UNDER A SUPERIMPOSED LOAD CONDITION SUCH AS A DRIVEWAY OR PARKING AREA, SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND CAST IRON/NEOPRENE GASKET FITTINGS.
      2. ABOVE FLOOR SHALL BE A.B.S. OR P.V.C. SCHEDULE 40 IF APPROVED BY LOCAL AUTHORITY, OR STANDARD WEIGHT CAST IRON PIPE WITH NEOPRENE RUBBER GASKETS OR HUBLESS CAST IRON PIPE WITH NEOPRENE RUBBER GASKETS AND STAINLESS STEEL CLAMPS (CLAMPS ALL OR EQUAL).
      3. HOT AND COLD WATER PIPING:
         a. ABOVE THE FLOOR SHALL BE TYPE "L" COPPER WITH 95/5 SWEAT SOLDERED AND WROUGHT COPPER FITTINGS. UNDER BUILDING SLABS SHALL BE TYPE "K" SOFT DRAWN COPPER TUBING WITHOUT JOINTS UNDER FLOOR. LOOP FROM WALL TO WALL.
      4. CONDENSATE DRAIN PIPING:
         a. CONDENSATE DRAIN PIPING SHALL BE GALVANIZED SCHEDULE 40 OR P.V.C. FROM HVAC ON ROOF AND OTHER EQUIPMENT UNLESS STATED OTHERWISE.
         b. CONTRACTOR SHALL FURNISH AND INSTALL $\frac{3}{4}$" OR 1" COPPER CONDENSATE DRAINS ON COOLER/FREEZER EVAPORATOR COILS; WITH TRAP ASSEMBLY AND 2" AIR GAP ABOVE DRAIN AS SHOWN ON THE DRAWINGS. FREEZER CONDENSATE PIPING SHALL BE WRAPPED WITH HEAT TAPE WITH A MINIMUM RATING OF 10 WATTS PER LINEAL FOOT FOR ITS ENTIRE LENGTH WITHIN THE FREEZER COMPARTMENT.
      5. INDIRECT WASTE PIPING: SHALL BE TYPE "L" COPPER WITH 95/5 SWEAT SOLDER AND WROUGHT COPPER FITTINGS (SEE PLUMBING PLAN FOR REQUIREMENTS) UNLESS OTHERWISE INDICATED.
      6. GAS PIPING:
         a. GAS PIPING INCLUDING TAP AND SERVICE SHALL BE INCLUDED. COORDINATE METER LOCATION WITH LOCAL AUTHORITY.
         b. UNDERGROUND GAS PIPING SHALL BE PLASTIC APPROVED GAS PIPING WITH LONG RADIUS STEEL WELDING FITTINGS. PROTECT PIPE AND FITTINGS WITH- TRANTEX WRAPPING TAPE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. OTHER TYPE OF PIPE PROTECTION OF EQUIVALENT QUALITY WILL BE OPTIONAL WITH THIS CONTRACTOR. INSTALLATION OF GAS SERVICE PIPING AND MATERIAL SHALL MEET WITH LOCAL GAS COMPANY'S APPROVAL.
         c. GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH 125 LB. BLACK MALLEABLE IRON SCREWED FITTINGS AND SUPPORTED AT INTERVALS NOT TO EXCEED 8'-0" AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTION. GAS PIPING COMPOUND AT JOINTS SHALL BE IN COMPLIANCE WITH NFPA BULLETIN NO. 54 AND LOCAL APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE.
         d. GAS PIPING SHALL SUPPLY HVAC UNITS, WATER HEATER AND KITCHEN EQUIPMENT IF INDICATED ON DRAWINGS BY THIS CONTRACTOR.
         e. MOISTURE TRAPS SHALL BE INSTALLED ON EACH PIPING DROP FOR HVAC UNITS, WATER HEATER AND KITCHEN EQUIPMENT.
      7. STORM DRAIN LEADER: SAME AS SOIL, WASTE & VENT PIPING.
      8. INSULATION
         a. ALL WATER PIPES, RAIN LEADERS AND ETC, SHALL BE INSULATED. PIPING SHALL BE INSULATED TO PREVENT EXCESSIVE HEAT LOSS AND TO PREVENT CONDENSATION AND SWEATING. ALL PIPING SHALL BE INSULATED WITH AT LEAST 1/2" THICK FOAM INSULATION AS MANUFACTURED BY ARMSTRONG ARMAFLEX OR APPROVED EQUAL AS INDICATED ON PLANS AND NOTES. AS MUCH OF THE INSULATION AS POSSIBLE SHALL BE SLIPPED ON TO THE PIPING AS THE PIPING IS BEING CONNECTED IN ORDER TO AVOID CUTTING THE INSULATION. ALL BUTT ENDS AND ANY NECESSARY LONGITUDINAL JOINTS SHALL BE SEALED WITH RUBBER BASED ADHESIVE.

7. FIXTURES:
   A. SEE DRAWINGS FOR SPECIFICATIONS.

8. FLASHINGS:
   A. ALL PIPING AND VENTS PASSING THROUGH ROOF SHALL BE FLASHED WATERTIGHT WITH SIX POUND TO THE SQUARE FOOT LEAD USING SLEEVE FLASHING WITH BASE EXTENDING AT LEAST 12 INCHES IN EACH DIRECTION BEYOND THE OUTSIDE DIAPHRAGM OF THE PIPE. TURN SLEEVE DOWN A MINIMUM OF 1-1/2" INTO TOP OF VENT PIPE WITH LEAD FITTING SNUGLY INSIDE OF PIPE. ALL GAS VENT CAPS SHALL BE FITTED WITH LEAD FITTING SNUGLY INSIDE OF PIPE. ALL VENT CAPS SHALL BE VANDAL PROOF. VERIFY APPROVED FLASHING MATERIAL AND METHODS WITH ROOFING CONTRACTOR TO ENSURE A COMPLETE JOB. SEE DETAILS ON ARCH. SHEETS.

9. CLEANOUTS:
   A. SEE DRAWINGS FOR SPECIFICATIONS.

10. EQUIPMENT:

    A. WATER HEATER, FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR:

       1. SIZE, CAPACITY, TYPE AND MANUFACTURER AS INDICATED BY DRAWINGS. WATER HEATER SHALL BE GAS.
       2. GAS WATER HEATER SHALL BE PROVIDED WITH 3" PVC FLUE VENT AND 3" PVC COMBUSTION AIR INTAKE COMPLETE WITH PIPE FITTINGS, CEILING COLLAR, FIRE STOP, ROOF FLASHING, AND WEATHERTIGHT STORM COLLAR, INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
       3. THE WATER HEATER SHALL BE PROVIDED WITH ALL TEMPERATURE AND SAFETY CONTROLS INCLUDING ASME AND ANSI Z21.22 RATED TEMPERATURE AND PRESSURE RELIEF VALVE, GAS PRESSURE REGULATOR (IF REQUIRED), DRAIN VALVE, EXPANSION TANK, ETC.
       4. PLUMBER SHALL MAKE WATER, GAS AND RELIEF LINE CONNECTIONS WITH CUTOFF VALVES AND DIELECTRIC UNIONS IN WATER AND GAS LINES.

    B. VALVES, COCKS AND FAUCETS:

       1. UNLESS SPECIFICALLY INDICATED ELSEWHERE, THE VALVES SHALL BE DESIGNED FOR NOT LESS THAN 126 LBS. WORKING PRESSURE. THE VALVES SHALL HAVE SUITABLE VALVE BODY PATTERNS FOR CONNECTION TO THE PIPE FOR WHICH THEY WILL OPERATE. ALL VALVES WITH RISING STEMS SHALL HAVE BACK SEATS FOR PACKING UNDER PRESSURE. APPROVED EQUAL GATE VALVES AND CHECK VALVES AS MANUFACTURED BY STOCKHAM, WALWORTH, LUNKENHEIMER, SCOTT, HAMMOND, CRANE OR WATTS WILL BE ACCEPTABLE.
       2. GATE VALVES SHALL BE HAMMOND 1B634 SPLIT WEDGE OR APPROVED EQUAL.
       3. CUTOFF VALVES UNDERNEATH LAVATORIES, TANK TYPE WATER CLOSETS, SANITARY SINKS AND WATER COOLERS SHALL BE CHROME PLATED ANGLE STOP VALVES WITH SOFT ANNEALED CHROME PLATED COPPER CONNECTION PIPES AND CHROME PLATED ESCUTCHEON PLATES.
       4. GAS COCKS FOR ALL EQUIPMENT: SEE DRAWINGS FOR REQUIREMENTS.
       5. WATER CUTOFF VALVE SHALL BE NIBCO #S-112 OR APPROVED EQUAL BRONZE SOLDER JOINT, 125 LB. WOG WITH RISING STEMS.
       6. EXTERIOR HOSE COCKS AND VALVE FIXTURES TO BE NON-FREEZE TYPE, SUPPLY SHUT-OFF VALVES IF INDICATED ON PLANS.

11. EXECUTION:

    A. PIPING:
       1. ALL PIPING SHALL BE RUN CONCEALED EXCEPT WHERE SHOWN OTHERWISE ON DRAWINGS.
       2. VALVES, TRAPS, CLEANOUTS AND OTHER APPARATUS SHALL BE INSTALLED IN AN INCONSPICUOUS LOCATION.
       3. SOIL, WASTE AND VENT OFFSETS AND HOUSE DRAINS SHALL BE INSTALLED WITH A MINIMUM, UNIFORM GRADE OF 1/8" TO THE FOOT, UNLESS OTHERWISE INDICATED OR REQUIRED BY LOCAL CODES.
       4. HOT AND COLD WATER LINES SHALL BE AT LEAST 6" APART WHERE PIPING IS PARALLEL.
       5. ALL WATER LINES SHALL BE RUN OVERHEAD AND DOWN PARTITION WALLS UNLESS NO WALL IS PROVIDED; THEN RUN LINES UNDER SLAB TO POINT OF TERMINATION. ALL LINES SHALL BE CONCEALED UNLESS NOTED OTHERWISE ON PLANS.

    B. HANGERS AND SUPPORTS:
       1. COPPER PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 7'-0" AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTION. HANGERS SHALL BE FEE & MASON PLASTIC COATED HANGER, FIG. 381 OR APPROVED EQUAL BY GRINNELL. HANGER ATTACHMENT TO STRUCTURE SHALL BE AS REQUIRED.
       2. GAS PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 8'-0" AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTION. STEEL PIPE HANGERS SHALL BE GRINNELL FIG. 104 OR FEE & MASON FIG. 199. ATTACHMENT TO STRUCTURE TO BE AS REQUIRED.
       3. HANGER RODS SHALL BE STANDARD BOLT STEEL WITH MACHINE SCREW THREADS, 3/8" DIAMETER MINIMUM.
       4. ALL PIPING UNDERGROUND SHALL BE FIRMLY BEDDED ON THE BODY OF THE PIPE, AND BELL HOLES PROVIDED AT EACH BELL. ALL PIPING SHALL BE INSTALLED IN GRADED TRENCH. EXCAVATE, BACKFILL AND SUPPORT PIPING IS HEREIN BEFORE SPECIFIED.

    C. PLUMBING FIXTURES:
       1. FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETE WITH ALL EQUIPMENT FITTINGS, TRIMMINGS AND ACCESSORIES, AS SPECIFIED. OPEN FRONT SEATS WITH NO COVERS AS MANUFACTURED BY OLSONITE WILL BE ACCEPTABLE.
       2. ALL FIXTURES SHALL BE GRADE A. THE NAME OR TRADE MARK OF THE MANUFACTURER SHALL BE PRINTED OR PRESSED ON ALL CLOSETS AND LAVATORIES, AND A LABEL, WHICH CANNOT BE REMOVED WITHOUT DESTROYING IT, CONTAINING THE MANUFACTURER'S NAME OR TRADEMARK AND THE QUALITY OR CLASS OF THE FIXTURES, SHALL BE AFFIXED TO OIL FIXTURES AND NOT REMOVED UNTIL AFTER THE WORK HAS BEEN ACCEPTED.
       3. EXPOSED PIPING TO FIXTURES SHALL BE A PRODUCT OF THE FIXTURE MANUFACTURER OR APPROVED EQUAL AND SHALL BE:
          a. WATER: CHROMIUM PLATED IRON PIPE SIZE RED BRASS.
          b. WASTE: CHROMIUM PLATED TUBING, EXCEPT WASTE CONNECTIONS TO KITCHEN OR SCULLERY SINKS.
       4. STOPS AS MANUFACTURED BY THE FIXTURE MANUFACTURER, WITH METAL-TO-METAL SEAT, SHALL BE PROVIDED FOR ALL FIXTURES AND EQUIPMENT. REFER TO SCHEDULE ON DRAWINGS FOR MANUFACTURER'S AND MODEL NUMBERS USED AS GUIDE SPECIFICATIONS. NUMBERS NS LISTED REPRESENT THE COMPLETE WORKABLE OUTFITS WITH ALL BRASS TRIM AS NECESSARY.
       5. FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
       6. FIXTURES FURNISHED BY THIS CONTRACTOR OR BY THE OWNER SHALL BE FITTED WITH NECESSARY WATER SUPPLIES, STOPS AND TRAPS WITH CLEANOUT PLUGS UNDER THIS SECTION OF THE SPECIFICATIONS.

    D. TESTS:
       1. THE PLUMBING SYSTEM AND ASSOCIATED SYSTEM SHALL BE SUBJECT TO CONSTANT INSPECTION AND FINAL APPROVAL OF THE CODE AUTHORITIES HAVING JURISDICTION. TESTS, IN ADDITION TO THESE INCLUDED IN THIS SECTION, REQUIRED TO SHOW CODE COMPLIANCE, SHALL BE PERFORMED AS DIRECTED.
       2. THE SOIL, WASTE AND VENT LINES OF THE SANITARY SYSTEMS SHALL BE SUBJECTED TO A WATER PRESSURE TEST OF NOT LESS THAN 10 FEET OF WATER HEAD PRESSURE OR 54 POUNDS OF AIR PRESSURE FOR A DURATIO OF NOT LESS THAN 2 HOURS. DURING THE PRESSURE TESTS EACH JOINT SHALL BE INSPECTED FOR LEAKS. THE LINES SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL THE UNDERGROUND AND CONCEALED LINES SHALL BE GIVEN THE ABOVE TEST AND APPROVED BEFORE THE LINES ARE COVERED.
       3. THE DOMESTIC WATER PIPING SYSTEM SHALL BE SUBJECTED TO A WATER PRESSURE TEST OF NOT LESS THAN 150 PSI FOR DURATION OF NOT LESS THAN 2 HOURS. THE WATER PIPING SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL UNDERGROUND AND CONCEALED LINES SHALL BE GIVEN THE ABOVE TEST AND APPROVED BEFORE THE LINES ARE COVERED.
       4. THE GAS SYSTEM, FROM THE METER CONNECTION AND THROUGHOUT THE NEW WORK, SHALL BE SUBJECTED TO AN AIR PRESSURE TEST OF NOT LESS THAN 50 PSI FOR A DURATION OF NOT LESS THAN 4 HOURS AND AT THE SAME TIME EACH JOINT AND CONNECTION SHALL BE TESTED BY APPLYING SOAP SUDS TO EACH JOINT. THE GAS PIPING SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL UNDERGROUND AND CONCEALED LINES SHALL BE GIVEN THE ABOVE TEST AND APPROVED BEFORE BEING COVERED. FURTHER, EACH EXPOSED JOINT SHALL BE TESTED WITH SOAPSUDS AFTER THE GAS HAS BEEN ADMITTED INTO THE SYSTEM.
       5. SHOULD THE CONTRACTOR REFUSE OR NEGLECT TO MAKE ANY TESTS NECESSARY TO SATISFY THE OWNER, HIS REPRESENTATIVE OR CODING OFFICIALS THAT HE HAS CARRIED OUT THE TRUE INTENT AND MEANING OF THE SPECIFICATIONS, THE OWNER MAY TAKE SUCH TESTS AND CHARGE THE EXPENSE THEREOF TO THE CONTRACTOR.

    E. CLEANING AND PROTECTION:
       1. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND LEFTOVER MATERIALS FOR WHICH HE IS RESPONSIBLE, CLEAN ALL FIXTURES AND EQUIPMENT AND REPAIR ANY BLEMISHES IN THE FINISH. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPLACING FIXTURES WHERE DAMAGE RESULTS FROM FAILURE TO PROVIDE PROTECTION DURING INSTALLATION.
       2. FLUSH OUT PIPES: AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED AND APPROVED, THE PIPING SYSTEM SHALL BE FLUSHED TO REMOVE ANY FOREIGN MATTER FROM THE PIPES WITH CHLORINE OR HTH SOLUTION TO SANITIZE THE NEW PIPING OR AS REQUIRED BY THE LOCAL AUTHORITIES.

    F. MAINTENANCE:
       1. THE CONTRACTOR, THROUGHOUT THE GUARANTEE PERIOD, SHALL MAINTAIN ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT. ONE MONTH AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE OWNER, THE CONTRACTOR SHALL GO OVER ALL THE FIXTURES AND TEST ALL WORKING PARTS AND PUT EVERYTHING IN GOOD WORKING ORDER. ALL FIXTURES, INCLUDING TRAPS, SHALL BE THOROUGHLY CLEANED AND ALL PARTS PUT IN GOOD WORKING ORDER.

SECTION 15550 - SPRINKLER SYSTEM

1. SCOPE OF WORK

   A. WORK INCLUDED UNDER THIS SECTION CONSISTS OF PROVIDING LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED TO CONSTRUCT AND INSTALL A SPRINKLER SYSTEM AS SPECIFIED, INDICATED AND ELSEWHERE REQUIRED.

   B. THE SPRINKLER SYSTEM SPECIFIED HEREIN IS REQUIRED TO MEET THE LOCAL BUILDING CODE.

   C. FIRE SPRINKLER PIPING ABOVE GROUND PIPING SHALL BE F.M. APPROVED SCHEDULE 10 OR 40 BLACK STEEL. SCHEDULE 10 PIPING SHALL BE JOINED WITH F.M. APPROVED ROLL-GROOVED FITTINGS, NOT THREADED OR PLAIN-END. FITTINGS SHALL BE CAST IRON OR STEEL APPROVED FOR A MINIMUM OF 175 PSI WORKING PRESSURE. DRY SYSTEMS SHALL HAVE F.M. APPROVED GALVANIZED PIPING AND FITTINGS FOR CORROSION RESISTANCE.

THREADABLE "LIGHTWALL" (XL) AND "THINWALL" PIPE MAY NOT BE UTILIZED UNDER ANY CIRCUMSTANCES.

2. PRODUCTS

   A. HANGERS: MUST MEET NFPA APPROVED TYPE FOR CONSTRUCTION USED.

   B. SPRINKLERS

      1. SPRINKLERS SHALL BE APPROVED AUTOMATIC SPRAY SPRINKLERS TO COMPLY WITH NFPA 13. SPRINKLERS SHALL BE OF OPERATING TEMPERATURE AS REQUIRED BY NFPA AND THE FIRE MARSHAL'S OFFICE AND INSURANCE UNDERWRITERS. PROVIDE APPROVED METAL CABINET WITH NUMBER OF REPLACEMENT HEADS OF VARIOUS TYPES AND QUANTITIES AS REQUIRED BY INSURING AGENCY.
      2. STANDARD CHROME PENDANT SPRINKLERS WITH LARGE ESCUTCHEON (1/2") 1/2" DISCHARGE ORIFICE IN KITCHEN & SERVICE AREAS.

   C. WATER FLOW INDICATOR
      1. PROVIDE AN ELECTRIC WATER FLOW INDICATOR WHERE INDICATED AND/OR REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. WATER FLOW INDICATOR SHALL BE PROVIDED WITH TIME DELAY MECHANISM, WHICH ABSORBS FLUCTUATION CAUSED BY WATER SURGES. SWITCHES SHALL BE WIRED COMPATIBLE WITH SOLENOID VALVE INSTALLED IN DOMESTIC WATER LINE.

3. EXECUTION

   A. INSTALLATION
      1. DRAWINGS WERE PREPARED WITH INTENT THAT ALL LINES CLEAR OBSTRUCTIONS AS PIPES, BEAMS, LIGHTS, HANGERS AND SIMILAR ITEMS. EXAMINE BUILDING AND PLANS CONFIRMING DIMENSIONS BEFORE PIPE IS CUT, FABRICATED AND/OR INSTALLED, TO DETERMINE IF OFFSETS ARE NECESSARY. WHERE REQUIRED, OFFSETS SHALL BE MADE WITHOUT ADDITIONAL COST TO OWNER.
      2. FOLLOWING GENERAL SCHEME SHALL BE EMPLOYED WHEN LOCATING SPRINKLER HEADS UNLESS RESTRICTED BY RULES AND REGULATING BODIES.
      3. UNLESS OTHERWISE INDICATED, CONCEAL PIPING IN FINISHED PORTIONS OF BUILDING AND EXPOSE ELSEWHERE. LOCATE CONCEALED PIPING IN FURRING, PIPE SPACES, CHASES AND ABOVE SUSPENDED CEILINGS. INSTALL EXPOSED PIPING PARALLEL OR PERPENDICULAR TO WALLS.
      4. LINES AT OR ABOVE CEILINGS SHALL BE HELD AS HIGH AS POSSIBLE AND BE RUN TO AVOID CONFLICTS. INCLUDE FITTINGS AND MATERIAL REQUIRED TO ACCOMPLISH THIS RESULT.
      5. PROVIDE SLEEVES FOR PIPING PASSING THROUGH FLOORS, CEILINGS AND MASONRY OF CONCRETE WALLS. LOCATE, SET AND ANCHOR SLEEVES.
      6. PROVIDE LINTELS REQUIRED TO PROPERLY COMPLETE SPRINKLER INSTALLATION.
      7. PROVIDE PLATES ON LINES PASSING THROUGH FLOORS, CEILING OR WALLS.
      8. HANGERS MUST BE PROPERLY SPACED AND SECURED TO BUILDING STRUCTURE TO ADEQUATELY SUPPORT LINES. SUPPORT FROM SUSPENDED CEILINGS AND/OR SIMILAR CONSTRUCTION WILL NOT BE ACCEPTED.
      9. DEVICES SHALL BE IN ACCORDANCE WITH RULES AND REGULATIONS OF NFPA AND INSURING AGENCY AND SHALL BEAR THEIR LABEL OF APPROVAL.
      10. REDUCING BUSHINGS ARE NOT PERMITTED IN MORE THAN ONE OUTLET OF ANY TEE OR ANY TWO OUTLETS OF ANY CROSS. BUSHINGS ARE NOT PERMITTED IN ANY ELBOWS OR WHEN THE REDUCTION IN SIZE OF THE OUTLET NO LESS THAN 1/2".
      11. INSTALL CHECK VALVE WHERE INDICATED ON PLANS.

   B. TESTING
      1. TEST SYSTEMS UNDER NORMAL OPERATING CONDITIONS AND DEMONSTRATE THAT PARTS ARE FUNCTIONING PROPERLY. CONDUCT TESTS AND SECURE FINAL CERTIFICATES OF APPROVAL. DELIVER COPIES OF CERTIFICATES TO ARCHITECT/ENGINEER & LANDLORD.
      2. TEST SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
         a. TWO HOUR, 200 POUND HYDROSTATIC TEST ABOVEGROUND SYSTEM.
         b. INCLUDE COST AND RUN SUCH TESTS AS MAY BE NECESSARY TO DEMONSTRATE THAT EQUIPMENT EQUALS OR EXCEEDS CAPACITIES SPECIFIED UPON REQUEST.
         c. NOTIFY ARCHITECT/ENGINEER TWENTY-FOUR HOURS BEFORE TESTING.

REGISTRATON SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE:
04/07/10

MEP SPECIFICATIONS

MEP2.1

SECTION 15770 - HEATING, VENTILATING AND AIR CONDITIONING

1. WORK INCLUDED:

A. HEATING, VENTILATING AND AIR CONDITIONING WORK REQUIRED, INCLUDING HOISTING OF EQUIPMENT TO THE ROOF AND SETTING IT IN PLACE, INCLUDES, BUT NOT NECESSARILY LIMITED TO:
1. PACKAGE HEATING, VENTILATING AND AIR CONDITIONING UNITS (IF NOT EXISTING NOTED TO BE REUSED)
2. INSTALLATION OF OWNER FURNISHED EXHAUST HOOD, EXHAUST FANS AND MAKE-UP AIR UNIT (DUCTWORK FURNISHED & INSTALLED BY CONTRACTOR).
3. ALL HVAC & HOOD EXHAUST DUCTS, DAMPERS, GRILLS, REGISTERS AND DIFFUSERS.
4. INSULATION OF DUCTS AND PIPING.
5. HVAC CONTROLS, REMOTE TEMPERATURE SENSORS AND CONTROL WIRING.

B. GAS CONNECTIONS (IF REQUIRED SEE DRAWINGS): PLUMBING CONTRACTOR WILL BRING GAS TO HEATING, VENTILATING AND AIR CONDITIONING AND FINAL TIE-IN TO HVAC BY PLUMBING CONTRACTOR.

2. INTENT OF DRAWINGS:

A. THE DRAWINGS ARE DIAGRAMMATIC TO THE EXTENT THAT THEY DO NOT INDICATE OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS.

B. PIPING, DUCTWORK, APPARATUS AND EQUIPMENT SHALL BE INSTALLED TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR, AND MAKE ALL OPERATING EQUIPMENT ACCESSIBLE FOR MAINTENANCE.

C. GOVERNING CODES AND STANDARDS:
1. INSTALL ALL WORK IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE STANDARDS OF SAFETY, ADOPTED AND APPROVED BY THE INSURANCE UNDERWRITERS AND THE LATEST STANDARDS RECOGNIZED BY ASHRAE AND SMACNA AND IN ACCORDANCE WITH LOCAL CODE.
2. IN CASE OF CONFLICT BETWEEN SAID CODES AND THE DRAWINGS, THE CODES SHALL GOVERN IN ALL CASES; HOWEVER, NOTIFY OWNER, BEFORE MAKING SUCH CHANGE.

3. EXAMINATIONS OF DRAWINGS AND SITE:

A. BEFORE COMMENCING THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY THE DRAWINGS, SPECIFICATIONS AND SITE. HE SHALL DEFINITELY DETERMINE IN ADVANCE THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS FOR GETTING THE EQUIPMENT INTO PLACE, AND SHALL MAKE THEMSELVES FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT. EQUIPMENT SHALL PHYSICALLY FIT THE AREA ALLOCATED WITH AMPLE ACCESS FOR SERVICE.

B. THE CONTRACTOR SHALL REFER ANY DISCREPANCIES TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK

4. SUBMITTALS:

A. MATERIALS LIST: THE CONTRACTOR SHALL SUBMIT, AT HIS EXPENSE, THREE (3) COPIES OF EQUIPMENT BROCHURES IN INDEX FORM WITHIN FIFTEEN (15) DAYS AFTER CONTRACT IS SIGNED. ALL EQUIPMENT AND MATERIAL SUBMITTALS SHALL BE SUBMITTED AT ONE TIME. THE DRAWINGS SUBMITTED SHALL BEAR THE STAMP OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR AND COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

5. GUARANTEE:

A. FURNISH WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM, TO THE OWNER, AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, AND OPERATING EQUIPMENT; FURTHER, GUARANTEE TO REBALANCE AND ADJUST ENTIRE SYSTEM OR ANY PART THEREOF, AS REQUIRED FOR PERFECT OPERATION FOR A PERIOD OF AT LEAST ONE (1) YEAR AFTER ACCEPTANCE, INCLUDING COST OF REFRIGERANT CHARGE. REPAIR, REPLACE AND MAKE SATISFACTORILY OPERATIVE ANY AND ALL DEFECTIVE ITEMS AND, WORK HOLDING OWNER FREE FROM ANY COST AND LIABILITY IN CONNECTION THEREWITH FOR THE TERM OF GUARANTEE. THE MANUFACTURER SHALL PROVIDE A WARRANTY ON HIS UNIT COMPRESSORS FOR A PERIOD OF FIVE (5) YEARS AND HEAT EXCHANGER FOR A PERIOD OF 10 YEARS.

6. COORDINATION OF OTHER TRADES:

A. THE WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO MAINTAIN A RAPID AND SMOOTH CONSTRUCTION PROGRESS WITH A MINIMUM OF INTERFERENCE.

7. PAINTING:

A. APPLY ONE (1) COAT OF ZINC CHROMATE, OR RUSTOLEUM TO BARE METAL SURFACES OF SUPPORTS, ETC. COLOR TO MATCH UNIT'S COLOR OR AS DIRECTED BY ARCHITECT OR OWNER.

8. CLEAN-UP:

A. ALL EQUIPMENT AND EXPOSED SURFACES SHALL BE LEFT SMOOTH AND CLEAN. ALL PLATE WORK SHALL BE POLISHED AND THE ENTIRE PREMISES SHALL BE CLEANED OF UNUSED MATERIALS, RUBBISH, AND DEBRIS AND GREASE SPOTS.

9. PRODUCTS:

A. GENERAL
1. ALL EQUIPMENT SHALL BE THE CAPACITY AND TYPE SHOWN ON THE EQUIPMENT SCHEDULE ON THE DRAWINGS AND SHALL AS MANUFACTURED BY ONE OF THE MANUFACTURERS DESIGNATED ON THAT SCHEDULE OR SHALL BE AN EQUAL APPROVED IN ADVANCE BY THE ARCHITECT.

B. SHEETMETAL WORK
1. SHEETMETAL: PRIME STEEL SHEETS, HOT DIPPED GALVANIZED OF THE FOLLOWING GAUGES:
   a. UP TO 12" WIDE OR DIAMETER, #26
   b. 13" TO 30" WIDE OR DIAMETER, #24
   c. 31" TO 60" WIDE OR DIAMETER, #22
   d. PARTITIONS FORMING PLENUM OR SUCTION CHAMBERS, #18 GAUGE WITH 1-1/2" X 1-1/2" X 3/16" GALVANIZED IRON ANGLE AND RIVETS FOR SEAM CONNECTION AND STIFFENING.
   e. EXPOSED ROUND DUCT SHALL BE SPIRAL TYPE SIMILAR TO SEMCO "SS" 75 DUAL WALL ROUND PIPE WITH 2" INSULATION, PERFORATED LINER WITH ALL REQUIRED FITTINGS. PIPE SHALL BE 24-26 GA.
2. DUCT CONSTRUCTION:
   a. LONGITUDINAL JOINTS: PITTSBURGH CORNER SEAMS OR SNAP LOCK.
   b. TRANSVERSE JOINTS: GOVERNMENT LOCKS RIVETED AT CORNERS, CONSTRUCTED OF METAL ONE GAUGE HEAVIER THAN THAT JOINTING DUCT SECTIONS. DUCTS UNDER 20" MAY BE JOINTED WITH TRANSVERSE CAP STRIPS.
   c. SUPPORTS: EXCEPT AS OTHERWISE SPECIFIED, ALL DUCT HANGERS SHALL BE CONSTRUCTED OF 3/4" NO. 16 GALVANIZED STRAP, SPACING NOT TO EXCEED EIGHT FOOT INTERVALS. WHERE DUCT HANGERS EXCEED SIX FEET IN LENGTH, PROVIDE ADEQUATE SWAY BRACING. ALL VERTICAL DUCTS SHALL BE SUPPORTED ON ANGLE IRON BRACKETS.
   d. ELBOWS: MADE FOR AN EASY FLOW OF AIR FOR MINIMUM FRICTION, INSIDE RADIUS EQUAL TO WIDTH OF DUCT. PROVIDE ELBOWS WITH APPROVED DUCT TURNS WHERE INDICATED ON PLANS OR WHERE SPACE DOES NOT PERMIT REQUIRED RADIUS.
   e. FLEXIBLE CONNECTION: AT ALL FANS, CONNECTIONS SHALL BE NEOPRENE COATED GLASS FIBER CLOTH ENDS WHICH ARE TO BE TURNED INTO ABUTTING ENDS OF SHEETMETAL OR ANGLE IRON FRAMES SO AS TO FORM A GASKET TO FORM AN AIR TIGHT JOINT.
   f. WORKMANSHIP AND CONSTRUCTION SHALL MEET AND EXCEED THE STANDARDS AS SET FORTH BY SMACNA

C. GRILLES, REGISTERS AND DIFFUSERS:
1. SIZES: AS INDICATED ON DRAWINGS.
2. SUPPLY DIFFUSERS: AS INDICATED ON DRAWINGS.
3. RETURN AIR REGISTERS: AS INDICATED ON DRAWINGS.

D. DUCT INSULATION:
1. INSULATE ALL SUPPLY, MAKE-UP AIR AND RETURN AIR DUCTS WITH 2" THICK (3/4 LB. DENSITY) WITH VALUE OF R-5 EXTERNALLY INSULATED FOIL-FACED BLANKET, SEE PLANS FOR ADDITIONAL INFORMATION. (NOT REQUIRED FOR SPIRAL, ROUND DUCT)
2. INSULATE ALL EXHAUST DUCTWORK FOR TYPE II HOODS AND DISHWASHER GRILLE WITH 1-1/2" THICK EXTERNAL INSULATION.
3. MAXIMUM 25 FLAME SPREAD 50 SMOKE DEVELOPED.

E. FLEX DUCT:
FLEX DUCT FOR ROUND CONNECTIONS OF SHEET METAL LOW PRESSURE SUPPLY DUCT TO DIFFUSERS/REGISTERS ONLY AND SHALL NOT BE LONGER THAN 18". DUCT SHALL EMPLOY A TWO PLY CORE WITH AN ENCAPSULATED WIRE HELIX ON 1-1/2" CENTERS. PROVIDE 1" FIBERGLASS INSULATION AND POLYETHYLENE JACKET. CONNECTION TO DUCT AND DIFFUSERS VIA NYLON PANDUIT TIES OR EQUIVALENT.

E. ROOFTOP UNIT EQUIPMENT:
1. CHUCK E. CHEESE HAS AN EXCLUSIVE NATIONAL ACCOUNT AGREEMENT WITH LENNOX INDUSTRIES. PLEASE CONTACT YOUR LOCAL LENNOX SALES OFFICE FOR PRICING, OR CONTACT LENNOX NATIONAL ACCOUNT MANAGER: CHRIS MURRAY AT 1-800-367-6285.
2. UNITS SELECTED AT 80°F DB, 67°F WB, 105°F OUTDOOR AMBIENT.
3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
4. PROVIDE ROOF CURB
5. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF DAMPER.
6. PROVIDE TWO SETS OF 2" 30% PLEATED FILTERS. CHANGE FILTERS PRIOR TO AIR BALANCE, AND AFTER FINAL STORE CLEANING.
7. PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL THERMOSTAT IN MANAGER'S OFFICE. PROVIDE REMOTE SENSOR AT LOCATION SHOWN IN DINING ROOM/KITCHEN. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY.
8. PROVIDE UNIT WITH CO2 INDOOR AIR QUALITY SENSOR AND CONTROLS. MINIMUM O.A. SETTING @ 50% REQUIRED VENTILATION.
9. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTOR, ELECTRICAL CONTRACTOR TO WIRE. SMOKE DETECTOR TO SIGNAL FIRE ALARM PANEL AND TURN OFF ROOFTOP UNIT WHEN ACTIVATED.
10. NEMA 3R DISCONNECT SWITCH AND WP, GFCI SHALL BE PROVIDED WITH THE ROOFTOP UNIT.

10. EXECUTION:

A. INSTALLATION OF EQUIPMENT:
1. GENERAL:
   a. INSTALL ALL EQUIPMENT WHERE INDICATED ON THE APPROVED CONTRACT DRAWINGS.
   b. AVOID INTERFERENCE WITH STRUCTURE AND THE WORK OF OTHER TRADES: DO NOT CUT INTO LOAD CARRYING MEMBERS WITHOUT THE SPECIFIC APPROVAL OF THE ARCHITECT.
   c. TEMPERATURE CONTROL SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS.

B. ACCEPTANCE:
1. THE SYSTEM SHALL NOT BE CONSIDERED FOR ACCEPTANCE UNTIL THE MECHANICAL SUBCONTRACTOR HAS COMPLETED WORK AND DEMONSTRATED TO THE REPRESENTATIVE OF THE OWNER, PROPER OPERATION OF THE SYSTEM AND STRICT COMPLIANCE WITH THE SPECIFICATIONS, PARTICULARLY IN REFERENCE TO THE FOLLOWING ARTICLES OF THESE SPECIFICATIONS,
   a. TESTING
   b. CLEANING
   c. INSTRUCTIONS AND OPERATING MANUALS
   d. TRAINING OF OPERATING PERSONNEL
   e. AS-BUILT DRAWINGS
   f. GUARANTEE CERTIFICATES
   g. START UP AND TEST DOCUMENT
   h. INDEPENDENT AIR BALANCE REPORT

C. AIR CONDITIONING UNIT START-UP AND TEST:
1. ALL AIR CONDITIONING EQUIPMENT SHALL BE STARTED AND CHECKED BY THE MANUFACTURER'S FACTORY SERVICE PERSONNEL. THE MANUFACTURER SHALL CORRECT ANY PROBLEMS ARISING WITH THE EQUIPMENT. THE MANUFACTURER SHALL PROVIDE A CHECKLIST OR REPORT ON THE OPERATION OF THE EQUIPMENT, WHICH SHALL BE FORWARDED TO THE ARCHITECT.

D. GUARANTEE:
1. THE GUARANTEE PROVISION OF THIS SPECIFICATION REQUIRES PROMPT REPLACEMENT OF ALL DEFECTIVE WORKMANSHIP AND MATERIALS OCCURRING WITHIN ONE YEAR OF JOB ACCEPTANCE. THIS INCLUDES ALL WORK REQUIRED TO REMOVE AND REPLACE THE DEFECTIVE ITEM AND TO MAKE ALL NECESSARY ADJUSTMENTS TO RESTORE THE ENTIRE INSTALLATION TO ITS ORIGINAL SPECIFIED OPERATING CONDITION AND FINISH AT THE TIME OF ACCEPTANCE.

11. TOILET EXHAUST FANS:

A. TOILET EXHAUST FANS: ALL COMPLETE WITH ROOF-MOUNTED CURB, COLLAR AND DAMPER. THE CONTRACTOR SHALL SET FAN CURB AND THE FAN. COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE ELECTRICAL INTERLOCK WITH FAN AND TOILET ROOM LIGHTING CONTROLS LOCATED AT THE CIRCUIT BREAKER IN THE ELECTRIC PANEL. REFER TO ELECTRICAL DRAWINGS FOR INFORMATION.

12. EXHAUST HOOD AND FAN SYSTEM:

A. KITCHEN HOODS, SUPPLY, EXHAUST AND TOILET EXHAUST FANS; ALL COMPLETE WITH ROOF MOUNTING CURBS, COLLARS AND DAMPERS WILL BE FURNISHED TO THE JOB SITE BY OWNER UNDER SEPARATE CONTRACT. THE CONTRACTOR WILL HANG THE HOODS, SET FAN CURBS AND FANS, AND FURNISH AND INSTALL ALL INTERCONNECTING DUCTWORK AS, REQUIRED BY CODE AND PER HOOD MANUFACTURER'S CUT SHEETS. TYPE II HOODS SHALL HAVE GALVANIZED SHEET METAL EXHAUST DUCTWORK AND TYPE I HOODS SHALL HAVE WELDED BLACK IRON EXHAUST DUCTWORK.

13. FIRE DAMPER

A. BASED ON RUSKIN FD-35. FIRE DAMPERS IN LOW VELOCITY DUCTWORK SHALL BE FURNISHED WITH INTERLOCKING HINGED BLADES. ALL DAMPERS SHALL BE UL APPROVED AND LABELED AND SHALL MEET ALL REQUIREMENTS OF NFPA NO. 90A. FURNISH WITH UL LABELED FUSIBLE LINKS WITH TEMPERATURE RANGES TO CONFORM TO NFPA RECOMMENDATIONS. ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE.
1. DAMPERS AT WALL GRILLES, REGISTERS, ETC., SHALL BE TYPE "A" WITH BLADES IN THE AIR STREAM.
2. ALL OTHER FIRE DAMPERS SHALL BE TYPE "B" WITH BLADES. OUT OF THE AIR STREAM UNLESS OTHERWISE NOTED.

14. ACCESS DOOR

A. ACCESS DOORS SHALL BE INSULATED, AIRTIGHT, "HINGED" AND GASKETED STYLE, WITH A MINIMUM OF TWO QUICK ACTION LATCHES. DOOR SHALL BE MOUNTED IN A GALVANIZED STEEL FRAME WITH AN INSIDE "FOLD-OVER" FLANGE FOR DUCT ATTACHMENT. DOOR HEIGHT SHALL BE 24"; WIDTH SHALL BE EQUAL TO THE DUCT WIDTH OR 12" WHICHEVER IS LESS, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.

DIVISION 16 - ELECTRICAL

SECTION 16050 - GENERAL NOTES AND SPECIFICATION

1. GENERAL:

A. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND RELATED ITEMS TO INSTALL A COMPLETE AND FULLY OPERATIVE INTERIOR AND EXTERIOR ELECTRICAL SYSTEM AS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS AND ELSEWHERE REQUIRED.
B. ALL OUTLETS, FIXTURES AND EQUIPMENTS SHALL BE FULLY CONNECTED TO PROPER SOURCES OF POWER SUPPLY AND LEFT READY FOR USE.
C. PROVIDE ALL EXCAVATION AND TAMP-BACKFILL AS REQUIRED TO COMPLETE WORK. CORRECT ANY SETTLING DURING GUARANTEE PERIOD TO OWNER'S SATISFACTION.
D. PROVIDE ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE WORK. PATCHING SHALL BE DONE BY MECHANICS SKILLED AT THEIR WORK. ALL OPENINGS SHALL BE FILLED AND PATCHED TO CONFORM TO FIRE REGULATIONS.
E. COOPERATE WITH OTHER TRADES: MAKE KNOWN TO OTHER TRADES ARRANGEMENT OF ELECTRICAL WORK AND EXAMINE WORK OF OTHER TRADES TO AVOID CONFLICTS. EXAMINE DRAWINGS OF OTHER TRADES TO DETERMINE EXACT EQUIPMENT LOCATIONS OF POWER REQUIREMENTS AND CONTROLS. EXAMINE MANUFACTURERS' SHOP DRAWINGS TO DETERMINE ROUGHING-IN REQUIREMENTS.
F. PERMITS, FEES & CODES. PAY ALL COST FOR PERMITS, FEES AND INSPECTIONS REQUIRED BY AUTHORIZED AGENCIES HAVING JURISDICTION OVER ELECTRICAL WORK ELECTRICAL SYSTEM SHALL CONFORM TO REQUIREMENTS OF THE MOST CURRENT NATIONAL, STATE AND LOCAL ELECTRIC CODES, LOCAL AUTHORITIES AND UTILITY COMPANY.
G. ALL ELECTRICAL MATERIALS SHALL BE NEW, LISTED AND LABELED BY UL AND SHALL CONFORM TO INDUSTRY STANDARDS, PARTICULARLY NEMA, NFPA, N.E.C. & OTHERS.
H. PROVIDE TYPEWRITTEN DIRECTORIES IN PANEL BOARD WITH CLEAR PLASTIC SHIELD. PROVIDE ENGRAVED PLASTIC LOAD NAMEPLATES ON ALL DISCONNECT SWITCHES, MOTOR STARTERS AND CONTROL DEVICES.
I. TESTS: ENTIRE ELECTRICAL SYSTEM SHALL BE FULLY TESTED AND CORRECTED OF ANY SHORT CIRCUITS, OPEN GROUNDS, FAULTY WIRING AND INCORRECT CONNECTIONS.
J. GUARANTEE: COMPLETE ELECTRICAL SYSTEM INCLUDING ALL MATERIALS, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR A: PERIOD OF ONE YEAR BEGINNING WITH DATE OF ACCEPTANCE OF BUILDING BY OWNER.
K. EACH BIDDER SHALL, BEFORE SUBMITTING A PROPOSAL, VISIT AND EXAMINE THE SITE IN ACCORDANCE WITH DIVISION 1 TO SATISFY HIMSELF AS TO MATERIALS AND SCOPE OF THE NEW CONSTRUCTION AND ANY DIFFICULTY ATTENDING THE PERFORMANCE OF THE WORK.
L. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. CLAIMS MADE SUBSEQUENT TO THE TIME OF SUBMISSION OF THE PROPOSAL FOR LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR DIFFICULTIES ENCOUNTER, WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
M. WORKMANSHIP: ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEAT, WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED OR REWORKED AT NO ADDITIONAL EXPENSE TO THE OWNER.

SECTION 16121 — BASIC MATERIALS AND METHODS

1. GENERAL:

A. SECTION 16A APPLIES TO ALL WORKS HEREUNDER AND SHALL INCLUDE CONDUIT, BOXES, WIRE, WIRING DEVICES, LIGHTING FIXTURES AND RELATED MATERIALS.

2. CONDUIT:

A. CONNECTIONS TO EQUIPMENT, WHICH SHALL BE MADE WITH THREE FEET FLEXIBLE LIQUID-TIGHT CONDUIT WITH LIQUID-TIGHT CONNECTORS.
B. CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH SIX FEET OF FLEXIBLE CONDUIT FROM A JUNCTION BOX. LOCATE JUNCTION BOX TO PREVENT RELOCATION OF THE LIGHT FIXTURE.
C. INTERMEDIATE GRADE CONDUIT WITH THREADED FITTING
D. SHALL BE PROVIDED IN SLAB-ON-GRADE, OUTSIDE BUILDING, BURIAL BELOW GRADE AND IN WET LOCATIONS.
E. ALL OTHER CONDUIT SHALL BE ELECTRIC METALLIC TUBING WITH COMPRESSION TYPE FITTINGS. EXCEPT EXTERIOR EXPOSED CONDUIT SHALL BE RIGID GALVANIZED CONDUIT.

3. BOXES:
A. CONCEALED BOXES SHALL BE 4-INCH SQUARE GALVANIZED STEEL WITH GALVANIZED EXTENSION RINGS, TOTAL DEPTH OF NOT LESS THAN 2-1/2 INCHES.
B. SURFACE MOUNTED BOXES SHALL BE PRESSED GALVANIZED STEEL, UTILITY TYPE.
C. GANGABLE SECTIONAL SWITCH BOXES ARE SPECIFICALLY NOT ALLOWED.

4. WIRE & CABLE (600V AND LESS):

A. THE WIRE MEETING REQUIREMENTS BELOW SHALL BE SUITABLE FOR SECONDARY POWER AND LIGHT CIRCUITS AND CONTROL CIRCUITS WITHIN THE LIMITATIONS OF THESE SPECIFICATIONS.
C. INSULATED WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED.
D. ALL WIRE SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES, AND SHALL BEAR THE DATE OF MANUFACTURING AND SHALL NOT BE OLDER THAN TWELVE MONTHS.
E. TYPE OF WIRE SHALL BE AS FOLLOWS:
1. UNLESS OTHERWISE SPECIFIED OR INDICATED OTHERWISE ON DRAWINGS, ALL #12 AND #10 WIRE SHALL BE THHN AND ALL WIRE #8 AND LARGER SHALL BE THHN-THWN TYPE.
2. WIRING ADJACENT TO HEAT PRODUCING EQUIPMENT SHALL BE TYPE AVA.
3. NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED, EXCEPT FOR SIGNAL OR CONTROL SYSTEMS OR WHERE OTHERWISE INDICATED. WIRE SHALL BE COPPER, 600 VOLT MINIMUM RATING, EXCEPT FOR SPECIAL SYSTEMS.
4. UNLESS NOTED OTHERWISE, ALL CONDUCTORS SHALL BE SOFT DRAWN COPPER CONFORMING TO THE LATEST ASTM SPECIFICATIONS AND THE LATEST REQUIREMENTS OF NEC. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL INSULATION SHALL BE RATED 600 VOLT.
5. ALL WIRE SHALL BE AS MANUFACTURED BY GENERAL CABLE CO., PHELPS DODGE, ANACONDA, OR A CABLE EQUIVALENT.
6. ALL WIRE SHALL BE INSTALLED IN CONDUIT AND COLOR-CODED. ALL WIRE SHALL BE 98% CONDUCTIVE COPPER, RATED FOR MAXIMUM OF 600 VOLTS.
7. WIRE CONNECTORS: WIRE CONNECTORS FOR SIZED #10 AWG AND LESS SHALL BE "PRESS-SNURE", IDEAL "WRAP-CAP", T&B "STAKONS" OR 3M "SCOTCHLOK". CONNECTORS FOR WIRE SIZE #8 AND LARGER SHALL BE T&B OR BURNDY METHODS USING HYDRAULIC PRESSES.

5. ELECTRIC TAPE SHALL BE JOHNS-MANVILLE "DUTCH-BRAND" 3M," SCOTCH BRANCH," OR PLYMOUTH "SLIPKNOT BRAND".

6. WALL SWITCHES SHALL BE AS FOLLOWS OR APPROVED EQUAL WITH COLOR AS DIRECTED BY ARCHITECT:
A. 20A, SP, 125/277V. HUBBELL #1221.
B. 20A; 3W, 125/277V. HUBBELL #1223.
C. 20A, 4W, 125/277V. HUBBELL #1224.
D. 20A, SP, 125/277V. WITH PILOT LIGHT -HUBBELL #1221-PL
E. 20A, SP, 125/277V. WEATHERPROOF - HUBBELL #1281/1795.
F. 20A, SP, 125/277V KEYED SWITCH, HUBBELL #1221-L

7. RECEPTACLES SHALL BE IVORY, EXCEPT BROWN SHALL BE INSTALLED TO MATCH FINISHES AND SHALL BE AS FOLLOWS OR APPROVED EQUAL. PROVIDE OTHER RECEPTACLES AS INDICATED ON THE DRAWINGS.

A. 20A, 125V., DUPLEX - HUBBELL #5362 (I)
B. 20A, 250V., 2W+G - HUBBELL #5461
C. 50A, 250V., 3W+G - ARROW-HART #5700, BRYANT #9630FR OR P & S #5950.
D. GROUND FAULT (20A/125V) - HUBBELL #GF.-5362. PROVIDE SPRING LOADED WEATHERPROOF WHILE IN USE COVERS WHERE INDICATED.
E. CLOCK AND SIGN HANGER - ARROW-HART #5708, BRYANT #2828-GS OR HUBBELL.

8. PLATES: PROVIDE FACEPLATES FOR ALL DEVICES INCLUDING WALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS AND ALL WALL OUTLETS. FACE PLATES SHALL BE SATIN FINISHED STAINLESS STEEL IN ALL FOOD PREPARATION AREAS, BAR, RESTROOMS, OFFICES AND COMMERCIAL GRADE SMOOTH UNBREAKABLE PLASTIC IN LOBBY/DINING, COLOR TO MATCH DEVICES AND WALLS.

9. LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY OWNER THROUGH THE CONTRACTOR, AS SCHEDULED ON DRAWINGS AND CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED AS REQUIRED BY CODE.

10. LAMPS:
A. CONTRACTOR SHALL FURNISH AND INSTALL ONE COMPLETE SET OF LAMPS FOR ALL LIGHTING FIXTURES PROVIDE LABEL IN EACH FIXTURE INDICATING SIZE AND TYPE OF LAMP CORRESPONDING WITH SCHEDULE ON DRAWING. SIZE SHALL BE WORKED "MAXIMUM WATTAGE".
B. FLUORESCENT LAMPS SHALL BE STANDARD COOL WHITE, ENERGY EFFICIENT, MANUFACTURED BY GENERAL
C. ELECTRIC WATT MISER II UNLESS NOTED OTHERWISE.
D. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED WITH 2500 HOUR LAMP LIFE RATED 130 VOLTS.

11. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, ENERGY EFFICIENT, MANUFACTURED BY GENERAL ELECTRIC, MAXI-MISER II. CLASS "P" OR APPROVED EQUAL.

12. RACEWAY SYSTEM
A. ALL WIRE SHALL BE (INSTALLED IN A METAL RACEWAY AND SHALL BE) CONCEALED WHERE POSSIBLE. WHERE NECESSARY TO EXPOSE THE WIRING THE RACEWAY SHALL BE INSTALLED AS INCONSPICUOUSLY AS POSSIBLE AND IN STRAIGHT LINES WITH 90-DEGREE BENDS, PARALLEL WITH BUILDING LINES. SQUARE RACEWAYS, REAM SMOOTH AND MAKE-UP TIGHT. PLUG ENDS OF RACEWAYS FURRING CONSTRUCTION AND SWAB CLEAN BEFORE PULLING WIRE OR CABLE. SUPPORT RACEWAYS FROM BUILDING STRUCTURE MEMBERS ONLY WITH APPROVED FASTENERS DESIGNED FOR THE PURPOSE.
B. RACEWAY SYSTEM SHALL BE INSTALLED TO MAINTAIN THE MAXIMUM HEADROOM WITH REQUIRED SUPPORTS FOR THE LOAD. ALL ANCHORS, STRAPS AND CLIPS SHALL BE THE TYPE DESIGNED FOR THE PURPOSE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. COMMON SUPPORTS MAY BE USED FOR MECHANICAL AND ELECTRICAL EQUIPMENT BY COORDINATING THE WORK WITH ALL TRADES.
C. ALL ELECTRICAL BOXES SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS INDEPENDENTLY OF THE CONDUIT RACEWAYS, MECHANICAL SYSTEMS OR SUSPENDED CEILING SUPPORTS. RECESSED BOXES SHALL BE FLUSH WITH SURROUNDING SURFACE. ALL BOXES AND CABINETS SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE CLEANED BEFORE PULLING WIRE AND INSTALLING DEVICES.
D. SIZE OF CONDUIT SHALL NOT BE LESS THAN 3/4" AND NOT LESS THAN REQUIRED BY THE NATIONAL ELECTRICAL CODE.

13. WIRE: USE ONLY APPROVED TYPE WIRE-PULLING LUBRICANTS FOR WIRE PULLS. SPLICE WIRE ONLY IN ACCESSIBLE AND UL APPROVED JUNCTION BOXES. MAKE WIRE JOINTS MECHANICALLY STRONG BEFORE APPLYING THE CONNECTOR AND WHERE TAPE IS USED, WRAP EACH JOINT TO THE THICKNESS OF THE ORIGINAL INSULATION. CLEAN AND POLISH METALLIC SURFACES BEFORE INSTALLING CONDUCTORS. APPLY PRESSURE TYPE LUGS ON STRANDED CONDUCTORS CONNECTED TO SCREW OR BOLT TYPE CONNECTIONS.

14. WIRING DEVICES: UNLESS NOTED OTHERWISE, RECEPTACLES SHALL BE INSTALLED 18" ABOVE THE FINISHED FLOOR, SWITCHES SHALL BE 48" AND CLOCK HANGERS 8'-0", RECEPTACLES NOTED ABOVE WORK COUNTERS AND CABINETS (AC) SHALL BE MOUNTED ABOVE THE BACKSPLASH. WEATHERPROOF RECEPTACLE COVERS SHALL BE WEATHERPROOF WHILE IN USE. PROVIDE A BONDING JUMPER BETWEEN THE BOX AND ALL RECEPTACLES.

15. EQUIPMENT CONNECTIONS: PROVIDE ALL NECESSARY MOTOR STARTERS (VERIFY HOOD FANS WITH SUPPLIER), DISCONNECT SWITCHES, CONTROLS, CONDUIT, BOXES, WIRE, ETC. AND CONNECT COMPLETE TO EACH PIECE OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INDICATED .ON THE DRAWINGS. WHERE EQUIPMENT RATINGS DIFFERENT FROM THAT INDICATED, CONSULT OWNER. CONSULT WITH EQUIPMENT SUPPLIER TO DETERMINE ROUGH-IN REQUIREMENTS. WHERE EQUIPMENT IS NOTED AS FUTURE, TERMINATE CIRCUIT IN JUNCTION BOX AND INSTALL SPRING WIRE NUTS ON THE ENDS OF THE CONDUCTORS.

16. LIGHTING FIXTURES:

A. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND RELATED ITEMS TO PROPERLY INSTALL THE LIGHTING FIXTURES. FIXTURES SUPPORTED IN EXPOSED OR CONCEALED GRID CEILINGS SHALL BE PROVIDED WITH CLIPS. FIXTURES MOUNTED IN OR ON TILE CEILINGS SHALL BE ALIGNED WITH TILES. LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS EXCEPT FOR EXPOSED GRID CEILINGS WHERE A CEILING SUPPORTING WIRE SHALL BE PROVIDED AT EACH FIXTURE CORNER. DO NOT USE CEILING GRID CEILING SUPPORT WIRES FOR STRAPPING OR SUPPORT.

17. CLEANING: ALL EQUIPMENT INCLUDING PANELBOARDS, SWITCHES, WIRING DEVICES, LIGHTING FIXTURES, WALL PLATES, ETC. SHALL BE FREE OF CORROSION, DIRT, PAINT SPLATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAME AS INSTRUCTED BY THE OWNER BEFORE FINAL PAYMENT.

18. POWER AND LIGHTING PANELS:

A. THE SERVICE ENTRANCE EQUIPMENT SHALL BE UL LISTED AND LABELED FOR THAT APPLICATION. BUSSING SHALL BE ALUMINUM, TIN-PLATED. BRACE BUSSING FOR 65,000 A.I.C. UNLESS NOTED OTHERWISE ON THE CONTRACT DRAWINGS.
B. LIGHTING AND POWER PANELBOARDS SHALL HAVE LOCKING DOOR AND FLUSH TRIM. BUSSING SHALL BE ALUMINUM, WITH BRACING TO SUIT INTERRUPTING RATING.
C. BREAKERS SHALL BE INDIVIDUAL MOLDED CASE, BOLT-IN STYLE, SIZED AS SCHEDULED. TWO POLE AND THREE POLE BREAKERS SHALL BE COMMON TRIP SINGLE POLE UNITS WITH HANDLE TIES ARE NOT ACCEPTABLE.
D. PANELS SHALL BE CURB MOUNTED AS SHOWN ON PLANS.
E. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY COMPANY FOR PROPER PANEL ASYMMETRICAL INTERRUPTING RATINGS. SUBMIT THIS INFORMATION WITH SHOP DRAWINGS AND PANELS, ALONG WITH LETTER FROM POWER COMPANY.
F. METER, C.T, CABINET, SERVICE CONDUCTORS AND CONDUIT, TRANSFORMER, ETC., SHALL BE PER LOCAL UTILITY REQUIREMENTS. COORDINATE SERVICE INSTALLATION WITH LOCAL UTILITY COMPANY, PROVIDING ALL NEEDED EQUIPMENT AND LABOR.

19. LIGHTING CONTROLS: FURNISH AS NOTED ON ELECTRICAL PLANS. UL LISTED.

20. GROUNDING:

A. EQUIPMENT GROUNDING
1. THE EQUIPMENT GROUNDING SYSTEM SHALL BE SUCH THAT ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS ASSOCIATED WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LOW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS.
2. WIREWAYS, SWITCHGEAR, PANELBOARDS AND MOTOR CONTROL PANELS SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS (INCLUDING LUG OR SCREW TERMINALS) SECURELY BONDED TO THE ENCLOSURE. JUNCTION BOXES AND OTHER ENCLOSURES (SIZES ABOVE 5"X5" SHALL UTILIZE AN EQUIPMENT GROUND BUS OR LUG AS REQUIRED TO SECURELY BOND THE EQUIPMENT GROUND CONDUCTOR TO THE ENCLOSURE.
3. ALL BRANCH CIRCUITS FOR POWER AND LIGHT SHALL INCLUDE A GREEN INSULATED GROUNDING CONDUCTOR. THE EQUIPMENT GROUND CONDUCTOR SHALL BE ELECTRICALLY AND MECHANICALLY CONTINUOUS FROM THE SOURCE OF SUPPLY TO THE EQUIPMENT TO BE GROUNDED.
4. LIGHTING FIXTURES SHALL BE SECURELY CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR.
5. MOTORS SHALL BE CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR WITH A CONDUIT GROUNDING BUSHING AND WITH A BOLTED SOLDERLESS LUG CONNECTION ON THE METAL FRAME. BOLTS, NUTS AND WASHERS SHALL BE BRONZE, CADMIUM PLATED STEEL, OR OTHER NON-CORROSIVE MATERIAL.
6. ALL CONDUIT SHALL BE CONNECTED TO THE EQUIPMENT GROUND BUS BY MEANS OF A GROUNDING BUSHING,
7. E.C. SHALL COORDINATE WITH CASH REGISTER SYSTEM SUPPLIER TO CLARIFY ANY GROUNDING AND/OR WIRING REQUIREMENTS.

B. SYSTEM GROUND
1. THE SERVICE NEUTRAL SHALL BE SOLIDLY BONDED TO THE GROUNDING ELECTRODE AT THE SERVICE, WATERLINE, BUILDING STEEL AND FOOTER REBAR. IN COMPLIANCE WITH N.E.C. ARTICLE 250.

21. INSTALLATION:
A. ALL GROUNDING CONDUCTORS SHALL BE SIZED AS PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
B. GROUND RODS: GROUND RODS SHALL BE THE COPPER CLAD STEEL TYPE END SHALL BE A MINIMUM OF 8 FEET IN LENGTH AND 3/4 INCH IN DIAMETER. GROUND RODS SHALL BE AS MANUFACTURED BY COPPERWELD STEEL COMPANY, OR AND ACCEPTABLE EQUIVALENT.
C. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED COPPER. EQUIPMENT GROUND WIRE SHALL B THW INSULATED AND SHALL BE GREEN IN COLOR.
D. CONNECTIONS TO WATER SERVICE SHALL BE MADE WITH SUITABLE GROUND CLAMP OF LUG CONNECTION AHEAD OF THE BUILDING METER OR CUTOFF VALVE. VERIFY THE EXISTENCE AND BURIAL OF 10' OF COPPER WATER PIPE AHEAD OF AND AFTER THE WATER METER. OTHERWISE, PROVIDE UFER GROUND PER NEC.
E. CONNECTIONS TO GROUND RODS SHALL BE MADE BY A EXOTHERMAL WELD.
F. GROUNDING CABLES EMBEDDED IN THE FLOOR SHALL BE MADE IN RIGID CONDUIT.
G. GROUND RODS SHALL BE DRIVEN FULL LENGTH DIAGONALLY INTO THE EARTH AND HAVE A ONE (1) FOOT MINIMUM COVER.
H. ALL CONDUCTOR CONNECTIONS SHALL BE MADE UP TIGHT TO PROVIDE CONTINUITY OF METALLIC GROUND
I. GROUND WIRES NOT IN CONDUIT SHALL BE SUPPORTED EVERY FIVE (5) FEET.

22. TEST:

A. THE CONTRACTOR SHALL RUN A GROUND RESISTANCE TEST AND IF THE RESISTANCE TO GROUND IS GREATER THAN 25 OHMS, ADDITIONAL GROUND RODS SHALL BE INSTALLED. THE TEST SHALL NOT BE MADE WITHIN FIVE (5) DAYS AFTER A RAIN.
B. THE CONTRACTOR SHALL PROVIDE OWNER WITH A COPY OF THE TEST PROCEDURE AND RESULTS OF THE TEST.
C. THE GROUND TEST SHALL BE MEASURED IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF THE ARCHITECT. NO EQUIPMENT SHALL BE OPERATED UNTIL GROUND POTENTIAL IS VERIFIED.

23. WORKMANSHIP:

A. ALL WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THEIR TRADES AND SHALL BE TYPICAL OF THE BEST TRADE PRACTICES.

SECTION 16163 - SERVICE AND DISTRIBUTION

1. GENERAL

A. SCOPE: SECTION APPLIES TO ALL WORKS HEREUNDER AND SHALL INCLUDE SERVICE, METERING AND DISTRIBUTION.
B. SERVICE: THE ELECTRICAL DISTRIBUTION IS SIZED AS INDICATED ON THE ELECTRICAL PLANS. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND PROVIDE NECESSARY REVISIONS AND MODIFICATIONS REQUIRED. ELECTRICAL CONTRACTOR IS TO REFER TO THE POWER RISER DIAGRAM FOR FURTHER INFORMATION.
C. METERING: CONTRACTOR SHALL PROVIDE MODIFICATIONS NECESSARY METERING FACILITIES INCLUDING METER SOCKET, CURRENT TRANSFORMER CABINET, CONDUIT AND OTHER WORK FOR METERING REQUIRED BY THE LOCAL UTILITY COMPANY.

2. MATERIALS

A. DISCONNECT SWITCHES: SHALL BE (HEAVY-DUTY TYPE, NEMA HD) FUSED UNLESS NOTED OTHERWISE, DESIGNED TO ACCEPT ONLY REJECTION TYPE FUSES AND OPERATOR INTERLOCKED WITH THE DOOR IN THE "OFF" POSITION. SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SQUARE D OR CUTLER-HAMMER.
B. FUSES: SHALL BE CURRENT LIMITING WITH 200,000 AMPERES INTERRUPTING CAPACITY, UL INC. CLASS RK1 AND SHALL BE DUAL ELEMENT, TIME DELAY, CLASS R REJECTION TYPE. ONE SET OF SPARE FUSES SHALL BE PROVIDED FOR EACH SIZE AND MOUNTED IN "SPARE FUSE CABINET" LOCATED AT THE SERVICE ENTRANCE. FUSE IDENTIFICATION LABELS SHALL BE MANUFACTURED BY BUSSMAN OR SHAWMUT.

3. EXECUTION

A. DISCONNECT SWITCHES SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR. ALL CABINETS SHALL BE VACUUM CLEANED BEFORE PULLING WIRE

4. INSTALLATION OF EQUIPMENT AND FIXTURES

A. INSTALL ALL EQUIPMENT AND FIXTURES FORMING PART OF THE WORK OF THIS SECTION IN -COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL PERTINENT CODES AND REGULATIONS. MAKE ALL FINAL CONNECTIONS TO BAR AND KITCHEN EQUIPMENT.

5. LAMPING

A. LAMP ALL FIXTURES WITH LAMPS OF THE DESIGNED RATING AND PATTERN.

6. TESTING

A. GENERAL: UPON COMPLETION OF THIS PORTION AT THE WORK, FURNISH ALL EQUIPMENT AND PERSONNEL AND CONDUCT ALL TEST REQUIRED TO SECURE APPROVAL OF THE INSTALLATION FROM ALL AGENCIES HAVING JURISDICTION.

B. CRITERIA:

1. ALL SYSTEMS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS AND SHALL SHOW AN INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND OF NOT LESS THAN THAT REQUIRED BY THE NATIONAL ELECTRICAL CODE.
2. ALL SYSTEMS SHALL SHOW PROPER NEUTRAL CONNECTIONS.

7. CLEANING UP

A. ALL EQUIPMENT AND EXPOSED SURFACES SHALL BE LEFT SMOOTH AND CLEAN. ALL PLATE WORK SHALL BE POLISHED AND THE ENTIRE PREMISES SHALL BE CLEANED OF UNUSED MATERIALS, RUBBISH, DEBRIS AND GREASE SPOTS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH (314) 415-2400 FAX (314) 415-2300 www.arcv.com

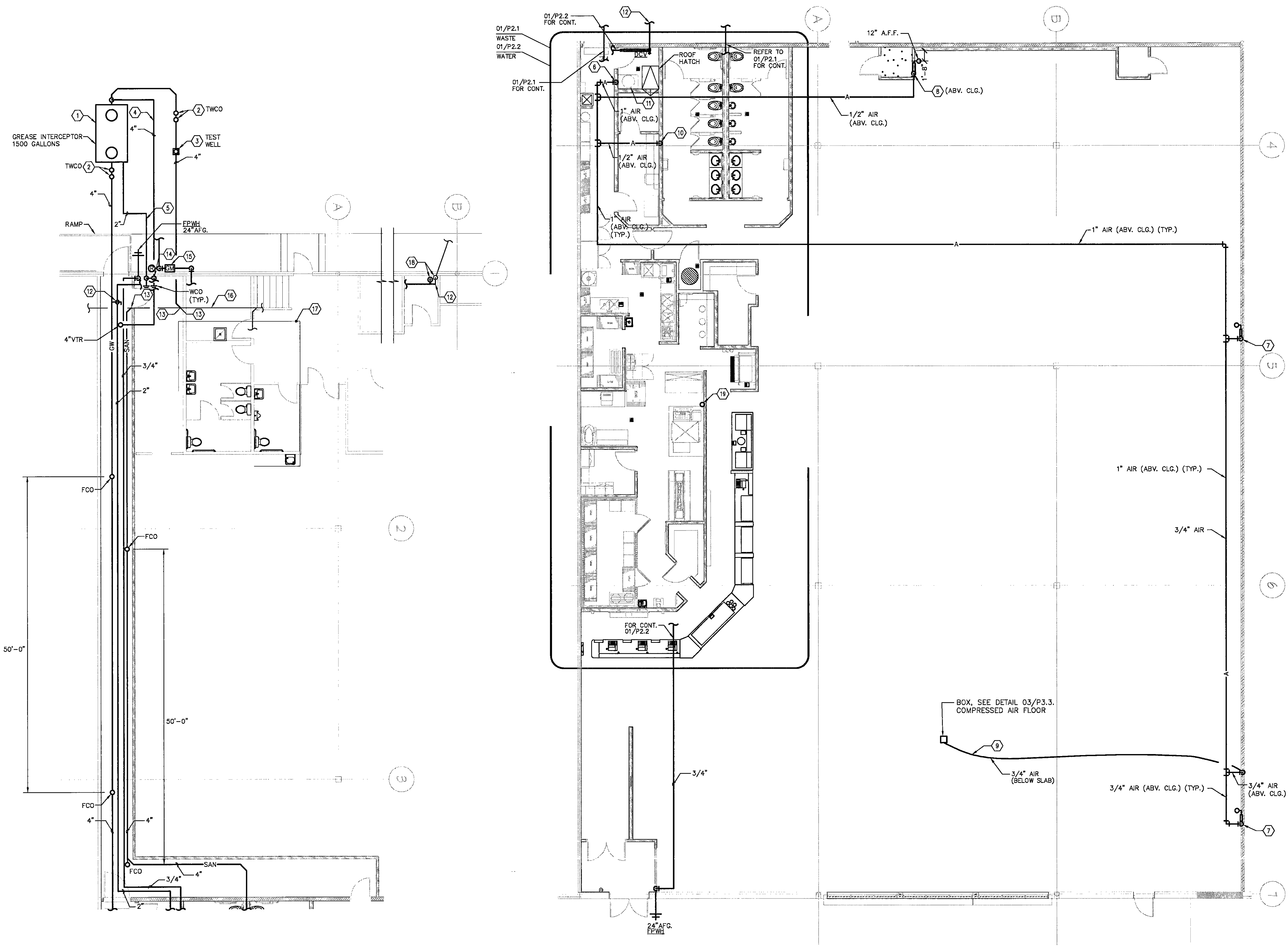
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

MEP SPECIFICATIONS

MEP2.2



PLAN NORTH

TRUE NORTH

01 PLUMBING FLOOR PLAN

Scale: 1/8"=1'-0"

CODED NOTES

1. 1500 GALLON GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
2. TWO-WAY CLEANOUT, SEE DETAIL 04/P3.3.
3. TEST WELL SAMPLE PORT, SEE DETAIL 07/P3.3.
4. 4" LOCAL VENT FROM GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
5. 2" RELIEF VENT FROM GREASE INTERCEPTOR, SEE DETAIL 01/P3.3.
6. 1" COPPER AIR LINE DOWN TO AIR COMPRESSOR/AIR DRYER, SEE DETAIL 09/P3.3.
7. 3/4" COPPER AIR LINE DOWN TO GAMES TO TERMINATE W/ 1/2" THREADED BALL VALVE LOCATED AT 12" A.F.F. PROVIDE RECESSED WALL BOX WITH BOTH MALE AND FEMALE CONNECTIONS. SEE DETAIL 08/P3.3. INSTALL ON TENANT'S SIDE OF DEMISING WALL FIBERGLASS INSULATION.
8. 1/2" COPPER AIR LINE TO 1/2" BALL VALVE, TO BE INSTALLED 12" A.F.F. AND 1'-8" OUT FROM BACK WALL. SEE DETAIL 08/P3.3
9. 3/4" COPPER PIPING TO "CRYLON" 12" X 12" FLOOR BOX. INSTALL BELOW FOUNDATION AND TERMINATE W/ 1/2" BALL VALVE. REFER DETAIL 03/P3.3.
10. 1/2" COPPER AIR LINE TO 1/2" THREAD ADAPTER WITH BALL VALVE. INSTALL @ 50" A.F.F.
11. AIR COMPRESSOR WITH DRYER ABOVE, SEE DETAIL 09/P3.3.
12. (2)1" COLD WATER TAPS FOR DOMESTIC WATER SERVICE AT WATER RISER AT ENTRANCE TO BUILDING. COORDINATE EXACT LOCATION WITH ARCHITECTURAL SITE PLAN DRAWING – A0.1 FOR INFORMATION. IF COLD WATER LINE IS LIMITED TO 1" COMBINE 1" COLD WATER PIPING INTO A 2" COLD WATER LINE AS REQUIRED. PROVIDE A 2" BALL MAIN VALVE ON THE WATER SERVICE LINE AS SHOWN. INSTALL AS PER LOCAL AUTHORITY REQUIREMENTS.
13. SANITARY AND GREASE WASTE CONNECTION POINTS. COORDINATE CONNECTION WITH ARCHITECTURAL SITE PLAN DRAWING – A0.1 FOR INFORMATION.
14. 4" LOCAL VENT AND 2" RELIEF VENT FROM GREASE INTERCEPTOR. TURN UP IN EXTERIOR WALL. INSTALL EXTERIOR WALL CLEAN OUTS AT 36" A.F.F., CONNECT VENT TOGETHER AT 42" A.F.F., EXTEND 4" VENT UP THRU ROOF. SEE ROOF PLAN SHEET MEP 1.1.
15. NEW GAS METER AND INCOMING SERVICE AT REAR OF BUILDING BY LOCAL GAS UTILITY. NEW SERVICE SHALL BE RATED AT 2175 CFH MIN. SEE ROOF PLAN SHEET MEP 1.1 FOR GAS METER AND GAS DEMAND INFORMATION.
16. EXISTING SANITARY MAIN. FIELD VERIFY EXACT SIZE LOCATION, DEPTH AND DIRECTION OF FLOW.
17. ADJECENT TENANT'S TOILET ROOM SHOWN FOR REFERENCE. FIELD VERIFY LOCATION.
18. EXISTING FIRE RISER MAIN AND WATER RISER MAIN SHOWN FOR REFERENCE. FIELD VERIFY LOCATION.
19. 2" LOW PRESSURE GAS DROP THRU ROOF TO PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL 08/P3.2.

UTILITY CONTACTS

CHUCK E CHEESES TO COORDINATE PAYMENT OF ALL IMPACT AND CONNECTION FEES. GENERAL CONTRACTOR AND PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR HANDLING PAYMENT OF PERMIT FEES.
G.C. AND P.C. SHALL VERIFY ALL REQUIREMENTS AND POINT OF CONNECTION.
G.C. AND P.C. SHALL MAKE ARRANGEMENTS FOR SERVICE ON THIS PROJECT AND COORDINATE PAYMENT. G.C. & P.C. SHALL PROVIDE ALL APPURTENANCES AS REQUIRED BY UTILITY COMPANIES FOR PROVIDING SERVICES TO THIS PROJECT. G.C. AND P.C. SHALL CONTACT THE UTILITIES AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF SERVICES WITH THE UTILITIES.

CITY OF FAYETTEVILLE, AR CONTACTS
CITY HALL
INFORMATION: PH: 476-521-7700

BUILDING INSPECTIONS
CONTACT PERSON: DAVID MOLASCHI
PHONE: 479-575-8267

WATER UTILITY CONTACT
CITY OF FAYETTEVILLE WATER & SEWER
113 WEST MOUNTAIN STREET
FAYETTEVILLE, AR 72701
PHONE: 479-575-8365

GAS UTILITY COMPANY
ARKANSAS WESTERN GAS COMPANY
ACCOUNT'S CONTACT: RANDY DRAKE
"CONSTRUCTION COORDINATOR"
PHONE: 479-528-8604
CELL PHONE: 479-435-0763
FAX: 479-521-9655

SERVICE PLANNERS
CONTACT: RANDY DRAKE
"CONSTRUCTION COORDINATOR"
PHONE: 479-528-8604
CELL PHONE: 479-435-0763
FAX: 479-521-9655

1. CONTACT GAS COMPANY AT START OF CONSTRUCTION FOR METER SET AND SERVICE COORDINATION.
2. CONTRACTOR MAY OFFER OWNER HAVE OPTION OF UTILIZING 2LB. GAS PIPING AT SITE. VERIFY OPTION WITH LOCAL GAS COMPANY.
3. CONTACT WATER UTILITY AT START OF CONSTRUCTION FOR NEW WATER SERVICE AND SERVICE COORDINATION.

UTILITY NOTES

A. COORDINATE ALL SERVICE REQUIREMENTS WITH UTILITY COMPANIES AND INCLUDE ALL WORK REQUIRED IN BID.

B. UTILITIES INFORMATION ARE APPROXIMATELY SHOWN, CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND SITE CONDITIONS PRIOR TO BID/CONSTRUCTION.

C. PLUMBING CONTRACTOR SHALL PAY FOR ALL EXPENSES TO RELOCATE/ REMOVE EXISTING UTILITIES BUT ARE NOT LIMITED TO WATER, SEWER, GAS, ETC. PER UTILITY COMPANIES SPECS. AND REQUIREMENTS.

D. GENERAL CONTRACTORS SHALL NOTE THAT ALL WORK TO BE DONE SUCH AS EXCAVATIONS, TRENCHES, CAISSONS, WALLS, ETC. AS INDICATED ON DRAWINGS IS SHOWN WITHOUT KNOWLEDGE OF UNDERGROUND UTILITIES ON THIS PARTICULAR SITE. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR DETERMINING THEIR LOCATION, SIZE, DEPTH OR HAZARD.

E. CONTRACTOR TO CONTACT ALL UTILITY COMPANIES FOR LINE LOCATIONS 72 HOURS PRIOR TO EXCAVATION.

GREASE INTERCEPTOR SIZING

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**********************************************************************
                    INTERCEPTOR SIZING SUMMARY
**********************************************************************

Project:  CHUCK E CHEESE              Seating Capacity       :   522
Location: FAYETTEVILLE, AR            Meals Per Peak Hour    :   261
Engineer: FRED GOGLIA                 Waste Flow Rate (gal)  :     2
Architect: FRED GOGLIA                 Retention Time (hr)   :   1.5
By: ARCVISION Date: 03-24-2010        Storage Factor         :   1.5

**********************************************************************
            Interceptor Minimum Capacity:    1175 Gallons
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REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

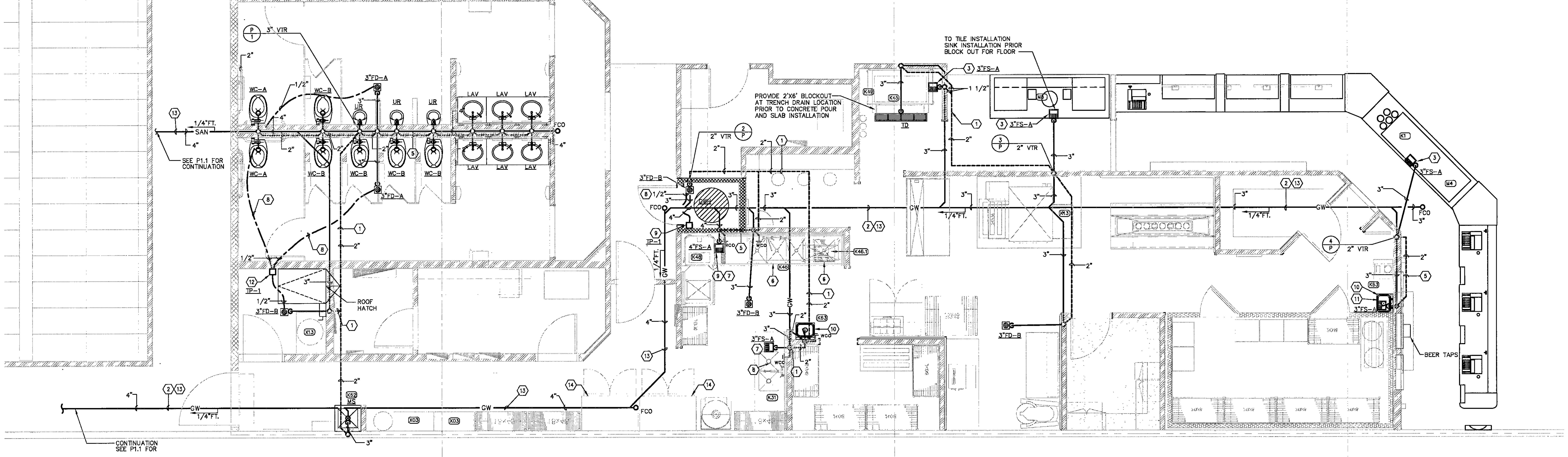
REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB

ISSUE DATE:
04/07/10

PLUMBING FLOOR PLAN

P1.1


3" VTR
2"
WC-A
WC-B
1/2"
3"FD-A
UR
LAV
FCO
4"
1/4"FT.
SAN
SEE P1.1 FOR CONTINUATION
WC-A
WC-B
3"FD-A
TP-1
3"FD-B
ROOF HATCH
GW
1/4"FT.
CONTINUATION SEE P1.1 FOR
MS
2" VTR
3"FD-B
3"FS-A
PROVIDE 2'X6' BLOCKOUT AT TRENCH DRAIN LOCATION PRIOR TO CONCRETE POUR AND SLAB INSTALLATION
TD
TO TILE INSTALLATION SINK INSTALLATION PRIOR BLOCK OUT FOR FLOOR
3"FS-A
1 1/2"
2" VTR
FCO
BEER TAPS
K49
K53
K31
K46
K46.1
K1
K63
WCO

01 WASTE PLAN

SCALE:1/4"=1'-0"

CODED NOTES

⟨1⟩ VENT PIPING ABOVE CEILING. (TYPICAL)

⟨2⟩ WASTE PIPING BELOW FLOOR. (TYPICAL)

⟨3⟩ FLOOR SINK FOR INDIRECT WASTE FROM EQUIPMENT (TYPICAL). COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.

⟨4⟩ FLOOR SINK AT DISHWASH EQUIPMENT CONNECT TO GREASE WASTE PIPING SYSTEM. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.

⟨5⟩ VENT PIPING IN WALL @ 42" A.F.F., SEE PLUMBING RISER.

⟨6⟩ SINK PROVIDED BY KITCHEN CONTRACTOR. INDIRECTLY TERMINATE DRAIN WITH AIR-GAP AT FLOOR SINK BELOW, SEE DETAIL 04/P3.4.

⟨7⟩ FLOOR SINK FOR INDIRECT WASTE FROM SINKS. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.

⟨8⟩ 1/2" TRAP PRIMER LINE BELOW FLOOR SEE DETAIL 02/P3.3.

⟨9⟩ TRAP PRIMER VALVE "(TP-1)" ON WALL IN WATER HEATER CLOSET, SEE TRAP PRIMER DETAIL 02/P3.3.

⟨10⟩ HAND SINK "(HS)" PROVIDED BY KITCHEN CONTRACTOR.

⟨11⟩ FLOOR SINK FOR INDIRECT WASTE. TERMINATE DRAIN PIPING FROM WALK-IN COOLER, AND BEER TAPS AT FLOOR SINK WITH CODE APPROVED AIR-GAP. SEE ARCHITECTURAL DETAIL FOR INSTALLATION AND ROUTING OF DRAIN LINES FROM BEER TAPS. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.

⟨12⟩ TRAP PRIMER VALVE "(TP-1)" ON WALL IN AIR COMPRESSOR ROOM, SEE TRAP PRIMER DETAIL 02/P3.3.

⟨13⟩ CONTRACTOR HAS OPTION OF RUNNING WASTE PIPING AT 1/8" PER FOOT SLOPE IF NECESSARY, DUE TO ELEVATION OF SANITARY MAIN.

⟨14⟩ DOUBLE DOOR REACH-IN FREEZER W/CASTERS FOR ACCESSIBILITY TO FLOOR CLEANOUT, SHOWN FOR REFERENCE. (TYPICAL OF 2)

NOTE:

1. ALL EXPOSED INDIRECT WASTE PIPING TO BE PVC. REFERENCE GENERAL NOTE #10 ON SHEET P3.1.
2. REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P3.1 FOR SIZES AND TYPE OF CONNECTION.
3. REFERENCE ARCHITECTURAL SHEET A1.1 FOR PLUMBING FIXTURE DIMENSIONS.

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET K1.0 FOR EQUIPMENT PLAN.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
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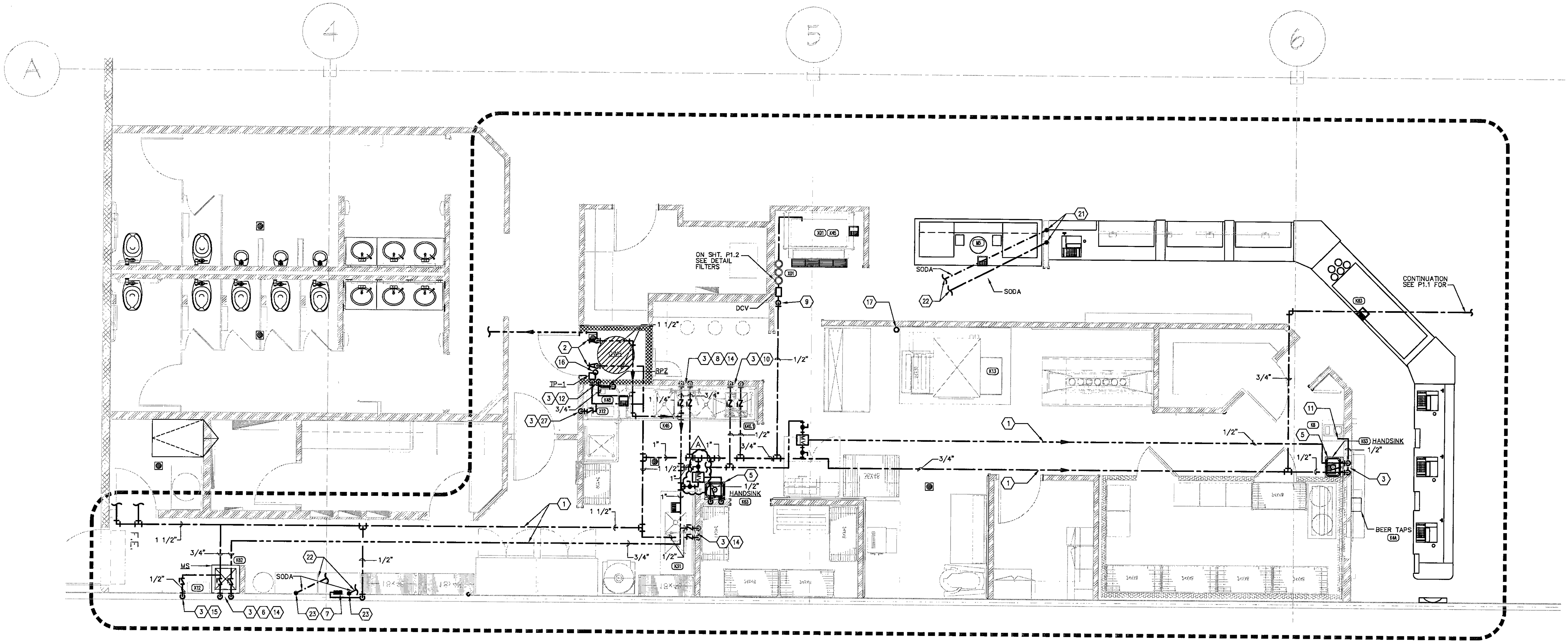
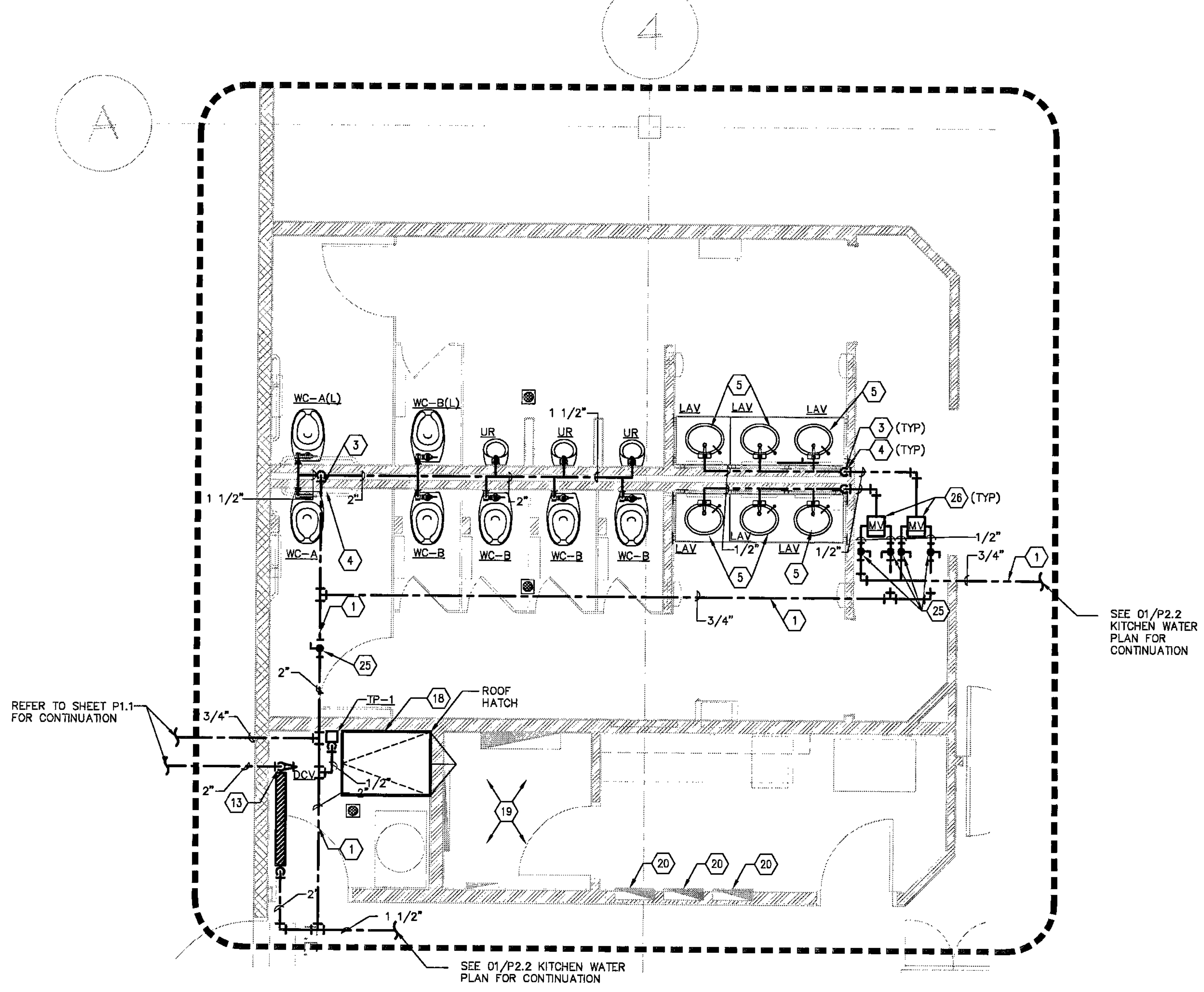
PLUMBING WASTE PLAN

P2.1



01 PLUMBING KITCHEN WATER PLAN
SCALE:1/4"=1'-0"


A
4
WC-A(L)
WC-B(L)
UR
LAV
WC-A
WC-B
(TYP)
ROOF HATCH
TP-1
DCV
SEE 01/P2.2 KITCHEN WATER PLAN FOR CONTINUATION
REFER TO SHEET P1.1 FOR CONTINUATION
SEE 01/P2.2 KITCHEN WATER PLAN FOR CONTINUATION
1 1/2"
2"
3/4"
1/2"

02 PLUMBING TOILET WATER PLAN
SCALE:1/4"=1'-0"

CODED NOTES

①	INSULATED HOT AND COLD WATER PIPING ABOVE CEILING. (TYPICAL)
②	1 1/2" HOT & COLD WATER PIPING AT WATER HEATER. SEE W.H. DETAIL 01/P3.4. TERMINATE T&P RELIEF DRAIN AT 3" FD BELOW.
③	INSULATED HOT, COLD, &/OR TEMPERED WATER DOWN IN WALL TO FIXTURE. INSULATE ALL WATER PIPING IN WALLS (TYPICAL).
④	WATER PIPING IN WALL TO TOILET ROOM FIXTURES. LOCATE HAMMER ARRESTER ABOVE CEILING WITH ACCESS FROM THE MEN'S ROOM.
⑤	INSTALL MIXING VALVE "MV-1" AT FIXTURE, CONNECT TO SUPPLY PIPING TO FIXTURE, SET WATER TEMP. @ 110°F. SEE DETAIL 18/P3.2. INSTALL MIXING VALVE ABOVE CEILING AT HAND SINKS AND BELOW FIXTURE AT LAVATORIES.
⑥	3/4" H&C WATER SUPPLY PIPING DN. IN WALL TO MOP SINK. SEE DETAIL 19/P3.2.
⑦	PROVIDE DUAL CHECK VALVE "CHUDNOW" SERIES #914 (OR EQUAL) WITH ASSE 1032 LISTING. INSTALL AT EQUIPMENT CONNECTIONS. FOR SODA EQUIPMENT, VALVE MUST BE STAINLESS STEEL. INSTALL UPSTREAM OF CARBONATOR AS PER SECTION 608.16.1 OF THE 2006 INTERNATIONAL PLUMBING CODE. PROVIDE WATTS 009QT (RPZ) BEFORE DUAL CHECK VALVE (WHEN REQUIRED BY CODE, SEE DETAIL 02/P3.4.
⑧	3/4" HOT AND COLD WATER PIPING DOWN IN WALL WITH 1/2" SUPPLIES (@ 12" AFF) TO 3-COMP SINK FAUCETS.
⑨	ICE MACHINE 1/2" WATER SUPPLY TO WATER FILTER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO WATER FILTER. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
⑩	1/2" HOT AND COLD WATER TO PRE RINSE. INSTALL SUPPLIES @ 12" A.F.F.
⑪	1/2" WATER SUPPLY 20"A.F.F. FOR COFFEE MAKER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO EQUIPMENT. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
⑫	3/4" HOT (140°F) WATER TO LOW TEMP. DISHWASHER. PROVIDE RPZ VALVE AND INSTALL AT 61-3/4" A.F.F.
⑬	PROVIDE AND INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER "WATTS 007-QT" BACKFLOW PREVENTER. INSTALL DCV ON MAIN WATER SERVICE. MOUNT UNIT ON WALL 5'-0" A.F.F. MAX., COORDINATE WITH OTHER EQUIPMENT ON WALL. UNIT MUST BE TESTABLE AND INSTALLED AT HEIGHT ACCESSIBLE FOR TESTING.
⑭	INSTALL CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO PLUMBING FIXTURE. (VEGETABLE PREP SINK, 3-COMP SINK AND MOP SINK)
⑮	1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT AT MOP SINK, (PROVIDE RPZ VALVE). SEE DETAIL 19/P3.2.
⑯	GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 01/P3.4.
⑰	2" LOW PRESSURE GAS CONNECTION POINT FOR PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL 08/P3.2.
⑱	ROOF ACCESS AREA. DO NOT RUN ANY PIPES ABOVE OR THROUGH THIS SPACE.
⑲	ELECTRICAL ROOM. DO NOT RUN ANY PIPES ABOVE OR THROUGH THIS SPACE.
⑳	ELECTRICAL PANELS. DO NOT RUN ANY PIPES ABOVE THE ELECTRICAL PANELS OR WITHIN 36" OF THE ELECTRICAL PANELS. COORDINATE IN FIELD WITH ACTUAL PANEL LOCATIONS.
㉑	TERMINATE 6" PVC CONDUIT DOWN 6" BELOW CEILING WITH ELBOW TO SERVE SODA SYSTEM.
㉒	6" PVC CONDUIT ROUTED ABOVE CEILING USING LONG SWEEP BENDS. DO NOT USE ANY SHORT SWEEPS OR SHARP TURNS.
㉓	6" PVC CONDUIT STUBBED DOWN 6" BELOW CEILING WITH ELBOW TO SERVE SODA SYSTEM. FIELD VERIFY AND COORDINATE ACTUAL LOCATION OF SODA "BAG-IN-BOX" PRIOR TO BID.
㉔	3"ø WATER HEATER FLUE AND COMBUSTION AIR UP THRU ROOF - OFFSET AS REQUIRED. INSTALL PER MANUFACTURERS RECOMMENDATION.
㉕	INSTALL SHUTOFF VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO TOILET ROOMS ABOVE LAY-IN CEILING.
㉖	INSTALL MIXING VALVES ABOVE CEILING. PROVIDE ONE PER RESTROOM. MAXIMUM OF THREE LAVATORIES PER MIXING VALVE. REFER TO LAVATORY MIXING VALVE DETAIL #18 ON SHEET P-3.2
㉗	1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT AT DISHWASHER, (PROVIDE RPZ VALVE).

NOTE:
REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P3.1 FOR WATER SUPPLY SIZES AND INSTALLATION HEIGHTS.

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET K1.0 FOR EQUIPMENT PLAN.

REGISTRATION SEAL
FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

REV	DATE	DESCRIPTION	NAME

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE:
04/07/10

PLUMBING WATER PLAN

P2.2

PLUMBING FIXTURE UNIT COUNT / CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	QTY.	TRAP SIZE	SAN F.U.	TOTAL SAN F.U.	F.W. F.U.	C.W. F.U.	H.W. F.U.	H.W. TEMP.	SUPPLY SIZE	TOTAL WTR F.U.	COMMENTS:
WC-A	WATER CLOSET (HC)	TOILET ROOM	2	3"	6	12	–	10	–	–	1"	20	(HC) HEIGHT WATER CLOSET WITH FLUSHVALVE HANDLE INSTALLED ON ACCESSIBLE SIDE OF STALL
WC-B	WATER CLOSET	TOILET ROOM	5	3"	6	30	–	10	–	–	1"	50	STANDARD HEIGHT WATER CLOSET
UR	URINAL	TOILET ROOM	3	2"	2	6	–	5	–	–	3/4"	15	INSTALL AT (HC) HEIGHT WITH F.V. HANDLE ON ACCESSIBLE SIDE
LAV	LAVATORIES	TOILET ROOM	6	1.25"	1	6	–	1	1	TEMPERED 110° F.	1/2"	12	COVER DRAIN AND WATER PIPING WITH TRU-BRO LAV GUARD
FD-A	FLOOR DRAIN	TOILET ROOM	2	3"	5	10	–	–	–	–	–	–	PROVIDE TRAP PRIMER, SEE DETAIL

TOTAL SANITARY WASTE FU's TOTAL 64

FIXTURE UNIT COUNT (KITCHEN GREASE WASTE)

ITEM	DESCRIPTION	LOCATION	QTY.	TRAP SIZE	SAN F.U.	TOTAL SAN F.U.	F.W. F.U.	C.W. F.U.	H.W. F.U.	H.W. TEMP.	SUPPLY SIZE	TOTAL WTR F.U.	COMMENTS:
K45	ICE-MACHINE	BEVERAGE	1	3" FS	5	5	1	–	–	–	1/2"	1	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 73 3/4" A.F.F. WATER SUPPLY THRU FILTER, SEE KITCHEN EQUIPMENT MANUAL
K45	ICE-MACHINE	BEVERAGE	1	3" FD	5	5	1	–	–	–	–	–	AREA DRAIN – NO TRAP PRIMER
K46/FS	3-COMP SINK	DISHWASH	1	–	–	SHARE W/K48	–	4	4	140° F.	1/2"	8	2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. (2 FAUCETS) SEE KITCHEN EQUIPMENT MANUAL
K46.1/FS	PRE-RINSE	DISHWASH	1	–	–	SHARE W/K48	–	2	2	140° F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 12" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
K48/FS	DISHMACHINE	DISHWASH	1	4" FS	6	6	–	–	4	140° F.	3/4"	4	FULL SIZE DRAIN INDIRECT TO F.S., WATER SUPPLY AT 61 3/4" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
K49	WATER FILTERS ICE MACHINE	KITCHEN	1	–	–	–	–	1	–	–	1/2"	SUPPLY TO ITEM 45	PROVIDE BACKFLOW PREVENTION AT WATER FILTER SUPPLY CONNECTION. SEE BACKFLOW PREVENTER SCHEDULE
FD-B	FLOOR DRAIN	DISHWASH	1	3" FD	5	5	–	–	–	–	–	–	
FS-A	SALAD BAR	KITCHEN	1	3" FS	5	5	–	–	–	–	–	–	FOR INDIRECT WASTE FROM COLD PANS
FD-B	FLOOR DRAIN	WATER HEATER	1	3" FD	5	5	–	–	–	–	–	–	TRAP PRIMER REQUIRED
K31	PREP SINK	KITCHEN	1	3" FS	5	5	–	2	2	140° F.	1/2"	4	1 1/2" INDIRECT WASTE TO F.S., WATER SUPPLIES AT 18" A.F.F. SEE KITCHEN EQUIPMENT MANUAL
FS-A	FLOOR DRAIN	BEVERAGE	1	3" FS	5	5	–	–	–	–	–	–	
K63	HAND SINK	KITCHEN	2	1.25"	1	2	–	1	1	110° F.	1/2"	4	DIRECT CONNECT DRAIN, WATER AT 18" A.F.F., SEE KITCHEN EQUIPMENT MANUAL
X12	ECOLAB	1 @ MOP SINK 1 @ DISHWASHER	2	–	–	–	–	1	–	–	1/2"	1	
X03/	BAG-N-BOX RACK	CORRIDOR	1	–	–	–	–	1	–	–	1/2"	1	WATER SUPPLY AT 78" A.F.F. PROVIDE RPZ VALVE WITH INDIRECT AT FLOOR DRAIN.
MS (K62)	MOP SINK	CORRIDOR	1	3"	5	5	–	2	2	140° F.	3/4"	4	PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON SUPPLIES ABOVE CEILING. INSTALL FAUCET AT 42" A.F.F.
K6	COFFEE	KITCHEN	1	–	–	–	–	1	–	–	1/2"	1	WATER SUPPLY AT 20" A.F.F. INSTALL DCV PRIOR TO CONNECTION AT EQUIPMENT. SEE KITCHEN EQUIPMENT MANUAL.
FS-A	FLOOR SINK	KITCHEN	1	3" FS	5	5	–	–	–	–	–	–	FOR INDIRECT WASTE FROM COOLER AND OTHER EQUIPMENT.
FD-B	FLOOR DRAIN	KITCHEN	1	3" FD	5	5	–	–	–	–	–	–	
FD-B	FLOOR DRAIN	MECH. ROOM	1	3" FD	5	5	–	–	–	–	–	–	TRAP PRIMER REQUIRED

TOTAL GREASE WASTE FU's TOTAL 63

SAN. – TOTAL: 64 FU's = 48 GPM FLOW
GW – TOTAL: 63 FU's = 45 GPM FLOW

TOTAL COMBINED SANITARY WASTE FU's 127 TOTAL DOM. WATER FU's 129

DOM. WTR.	129 TOTAL FU's = 76 GPM = 2" DOMESTIC WATER SERVICE, 2" WATER METER, 2" DCV BFP
SAN. WASTE	127 TOTAL FU's = 60 GPM = 4" WASTE PIPING @ 1/4" PER FOOT SLOPE

PROJECT CHUCK E. CHEESE'S
LOCATION FAYETTEVILLE, AR
CODE 2006 ARKANSAS PLUMBING CODE
JOB# 090899.0

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER AND MODEL
LAV	INTERGRAL SINK SPECIFIED BY C.E.C. WITH CHROME PLATED BRASS FAUCET CONTAINING HANDS-FREE SENSOR, , DRAIN ASSEMBLY, STRAINER, AND TAILPIECE.	LAVATORY: INTERGRAL MOUNT (ANTIQUE WHITE) WITH CENTER FAUCET HOLE, FAUCET WITH 1-1/4" TAIL PIECE, 17 GA. "P" TRAP. SEE DETAIL #18 ON SHEET P3.2 AND COORDINATE. PROVIDE WITH MIXING VALVE MV-1. FAUCET: BRADLEY – AERADA 1200 SERIES CS FAUCET MODEL #S513-315 WITH HANDS-FREE SENSOR, (2) – 100-120 VAC 6-UNIT ADAPTOR MODEL #153-444 (ONE UNIT FOR EACH SET OF THREE LAVS.) WIRE (FOR 6-UNIT ADAPTOR) MODEL #269-1841 (ONE PER FAUCET) DRAIN ASSEMBLY: D-ASSY MODEL #269-1231
WC-A	WATER CLOSET WHITE VITREOUS CHINA ELONGATED SIPHON JET FLOOR MOUNTED 17" HIGH FOR HANDICAP	AMERICAN STANDARD "MADERA" 3043.102.020 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
WC-B	WATER CLOSET WHITE VITREOUS CHINA SIPHON JET FLOOR MOUNTED	AMERICAN STANDARD "MADERA AQUAMETER" 2234.015 FLUSH VALVE: SLOAN 111 SEAT: CHURCH 9500C CARRIER: N/A
UR	URINAL-ADA WHITE VITREOUS CHINA WASHOUT WALL HUNG	TOTO USA UT-104 FLUSH VALVE: TOTO TEU1LN#CP CARRIER: PROVIDE HANGING ACCESSORIES WITH URINAL
MS	MOP SINK FIAT 24" 24" FLOOR MOUNTED WITH HOSE & BRACKET; MOP HANGER	FIAT: MOD # MSB-2424 FAUCET: FIAT 830-AA; HOSE & BRACKET: 832-AA MOP HANGER: FIAT 889-CC; STRAINER: 1453-BB INSTALL MOP HANGER ADJACENT TO FAUCET.
TD	TRENCH DRAIN PRESLOPED 1/8'/LF; 6" WIDE; BOLTED/GASKETED FLANGE CONNECTION.	DRAIN: "ZURN" MOD.# Z-890-KC 4" BOTTOM OUTLET; PROVIDE WITH GRATE, STRAINER, PAN AND LOCKING COLLAR.
FD-A	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN: "JONESPEC" MOD.# FD-2280-PV PROVIDE P-TRAP WITH TRAP PRIMER CONNECTION CHECK CONNECTION SIZE WHEN ORDERING
FD-B	HEAVY DUTY FLOOR DRAIN W/ADJUSTABLE NICKELAND, 6" ROUND STRAINER AND TRAP PRIMER CONNECTION	DRAIN: "JONESPEC" MOD.# FD-2280-PV CHECK CONNECTION SIZE WHEN ORDERING
FS	FLOOR SINK W/FULL GRATE AND REMOVABLE PLASTIC SECONDARY STRAINER	DRAIN: "JONESPEC" MOD.# FD-2370 -PV CHECK CONNECTION SIZE WHEN ORDERING
GWH WATER HEATER	COMMERCIAL TANK TYPE. WATER DELIVERY TEMP. – SET 140°F WTR. WITH ELECTRONIC CONTROLS AND DIRECT VENT.	BRADFORD WHITE: PDV-100S-200-3N; GAS: 199 CFH CAP: 100 GAL. RECOVERY = 194 GPH @ 100° RISE EXPANSION TANK: AMTROL MODEL # ST-12
MV-1 MIXING VALVE	ABOVE CEILING AT FIXTURE	WATTS MODEL # USG-B-SC (SET AT 110°F) SATIN CHROME FINISH
FPWH	FREEZEPROOF WALL HYDRANT	WOODFORD SERIES B65 LOOSE KEY
FCO	FLOOR CLEANOUT HEAVY DUTY BOLTED CLEANOUT	CLEANOUT: "JONESPEC" MOD.# CO-2450-PV4 W/SCORIATED BRASS COVER
CO	CLEANOUT (EXTERIOR)	CLEANOUT: "JONESPEC" MOD.# CO-2450-PV4 W/SCORIATED BRASS COVER
WCO	STAINLESS STEEL WALL CLEANOUT ACCESS COVER W/SCREW	COVER: "PROFLO" MOD.# PFC51U 6"

NOTES:

1. FIXTURE MANUFACTURER SHALL BE EQUAL TO THOSE LISTED.
2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR A SOLID, SECURE INSTALLATION.
3. PROVIDE ALL DRAIN COVERS, ESCUTCHEONS, AND MISCELLANEOUS TRIM ITEMS FOR A NEAT APPEARANCE.
4. ALL MOUNTED HEIGHTS SHALL BE VERIFIED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL PLANS.
5. ALL SUPPLIES SHALL BE CHROME PLATED.
6. COVER ALL DRAINS AND WATER PIPING UNDER SINKS, LAVATORIES AND COUNTERS DESIGNATED FOR USE BY THE HANDICAP WITH MOLDED CLOSED CELL VINYL EQUAL TO TRUBRO LAV-GUARD.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—┼●┼—	BALL VALVE	●	GAS DROP TO EQUIPMENT
—┼/┼—	BUTTERFLY VALVE	—W—	WATER SERVICE LINE
—⋈—	BALANCING VALVE	— — —	DOMESTIC COLD WATER
—N—	CHECK VALVE	– – – –	DOMESTIC HOT WATER
—⋈—	GATE VALVE	- - - -	DOMESTIC HOT WATER RETURN
—┼■┼—	GAS PLUG COCK	- - - - -	SANITARY SEWER VENT
—⊗—	WATER METER	———	SANITARY WASTE LINE
C—‖	WALL CLEANOUT	—IW—	INDIRECT DRAIN
—o	FLOOR CLEANOUT	—SD—	STORM DRAIN
—⌂	FLOW SWITCH	—F—	FIRE PROTECTION
—▤	FLOOR SINK	—G—	NATURAL GAS LINE
—▣	FLOOR DRAIN	—‖—	FLANGE
—◎	FLOOR DRAIN W/FUNNEL	—‖—	UNION
—⊘	ROOF DRAIN	—┼—	BRANCH – TOP CONNECTION
—⊘	HUB DRAIN	—┼—	BRANCH – BOTTOM CONNECTION
C┼╫	WALL HYDRANT OR HOSE BIBB	—O—	PIPE RISER
A	WATER HAMMER ARRESTOR WITH SIZE	—O	PIPE DROP
┌┐—	VACUUM BREAKER	—D—	DRAIN LINE
—▨—	BACKFLOW PREVENTER	—┌→	DIRECTION OF PIPE PITCH
◐→	POINT OF CONNECTION – NEW TO EXISTING	—→—	DIRECTION OF FLOW
▯	THERMOMETER	—FW—	FILTERED WATER
Ⓡ	GAS PRESSURE REGULATOR		

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.

WATER HEATER SIZING

FIXTURE (QTY)	GAL/HOUR	TOTAL GPH
3 COMP SINK: (1)	15 GPH	15 GPH
2 COMP SINK: (1)	10 GPH	10 GPH
PRE-RINSE SINK: (1)	45 GPH	45 GPH
HAND SINK: (2)	5 GPH	10 GPH
LAVATORY: (6)	5 GPH	30 GPH
MOPSINK: (1)	5 GPH	5 GPH
LO TEMP DISHWASH: (1)	1.5 GPHx37 RACKSx0.7	38.8 GPH
	TOTAL	153.8 GPH

REQUIRED: 153.8 GPH @ 100° RISE
SUPPLIED: 194 GPH @ 100° RISE

BFP SCHEDULE

PROVIDE RPZ REDUCED PRESSURE ZONE BACKFLOW PREVENTER WATTS SERIES # 009QT-SS STAINLESS STEEL WITH ASSE 1013 LISTING, AND DUAL CHECK VALVE CHUDNOW SERIES # 914 (OR EQUAL) WITH ASSE 1032 LISTING. VALVE MUST BE STAINLESS STEEL AT SODA EQUIPMENT WATER SUPPLY CONNECTIONS. PROVIDE FLEXIBLE PLASTIC SUPPLY LINE AT FINAL CONNECTION TO EQUIPMENT (COPPER PIPING NOT ALLOWED).

DESCRIPTION	TAG	VALVE MODEL
SODA EQUIPMENT	DCV	# 914
SODA EQUIPMENT	RPZ	# 009QT-SS
SODA EQUIPMENT	DCV	# 914

PROVIDE BACKFLOW PREVENTER WATTS MODEL # 9BD SERIES (OR EQUAL). INSTALL AT EQUIPMENT CONNECTIONS FOR THE ITEMS LISTED BELOW.

DESCRIPTION	TAG	VALVE MODEL
ICE MACHINE	DCV	# 9BD
COFFEE	DCV	# 9BD

1. PROVIDE APPROVED BACKFLOW PREVENTER ON WATER SUPPLY TO CHEMICAL SANITIZER ON DISH MACHINE, OR WATER SUPPLY TO DISH MACHINE WITH CHEMICAL SANITIZER EQUIPMENT, VERIFY WITH CODE.
2. VERIFY MAIN WATER SUPPLY BACKFLOW PREVENTION REQUIREMENTS WITH LOCAL CODE AT START OF CONSTRUCTION.

DESCRIPTION	TAG	VALVE MODEL
DISH MACHINE	RPZ	# 009QT
MAIN WATER SUPPLY	DCV	# 007-QT

NOTE: ALWAYS VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION

GENERAL NOTES

1 VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

2 OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AND KITCHEN EQUIPMENT FROM ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS. PROVIDE WALL BACKING FOR ALL WALL MOUNTED PLUMBING FIXTURES AND ACCESSORIES.

3 CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL PERMITS. FEES, CHARGES AND METERS.

4 TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MIN. FROM ANY FRESH AIR INTAKES.

5 INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.

6 PROVIDE FAUCETS UNLESS OTHERWISE NOTED, TRAPS, STOPS, GATE VALVES, GAS COCKS, WATER HAMMER ARRESTERS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.

7 RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS. INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT.

8 ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.

9 UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.

10 TERMINATE ALL INDIRECT WASTE LINES ABOVE FLOOR SINK WITH AIR GAP. AIR GAP MUST BE TWICE THE SIZE OF THE INDIRECT DRAIN LINE DIAMETER AND NO LESS THAN 1". PROVIDE AND INSTALL SCHEDULE 40 PVC PIPE.

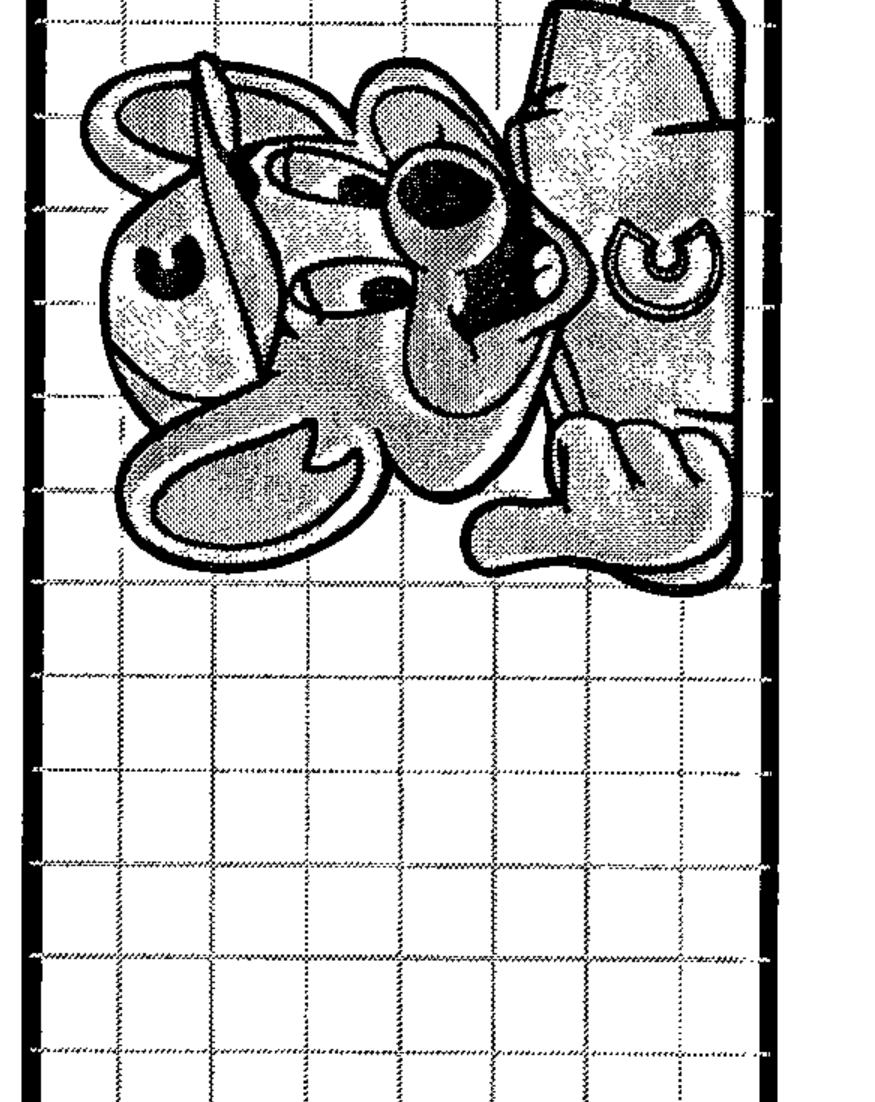
11 PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT AND APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS.

12 VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO UNIT.

13 PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR SINKS AND FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.

REGISTRATON SEAL
FREDERICK J. GOGLIA
REGISTERED ARCHITECT
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com



CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
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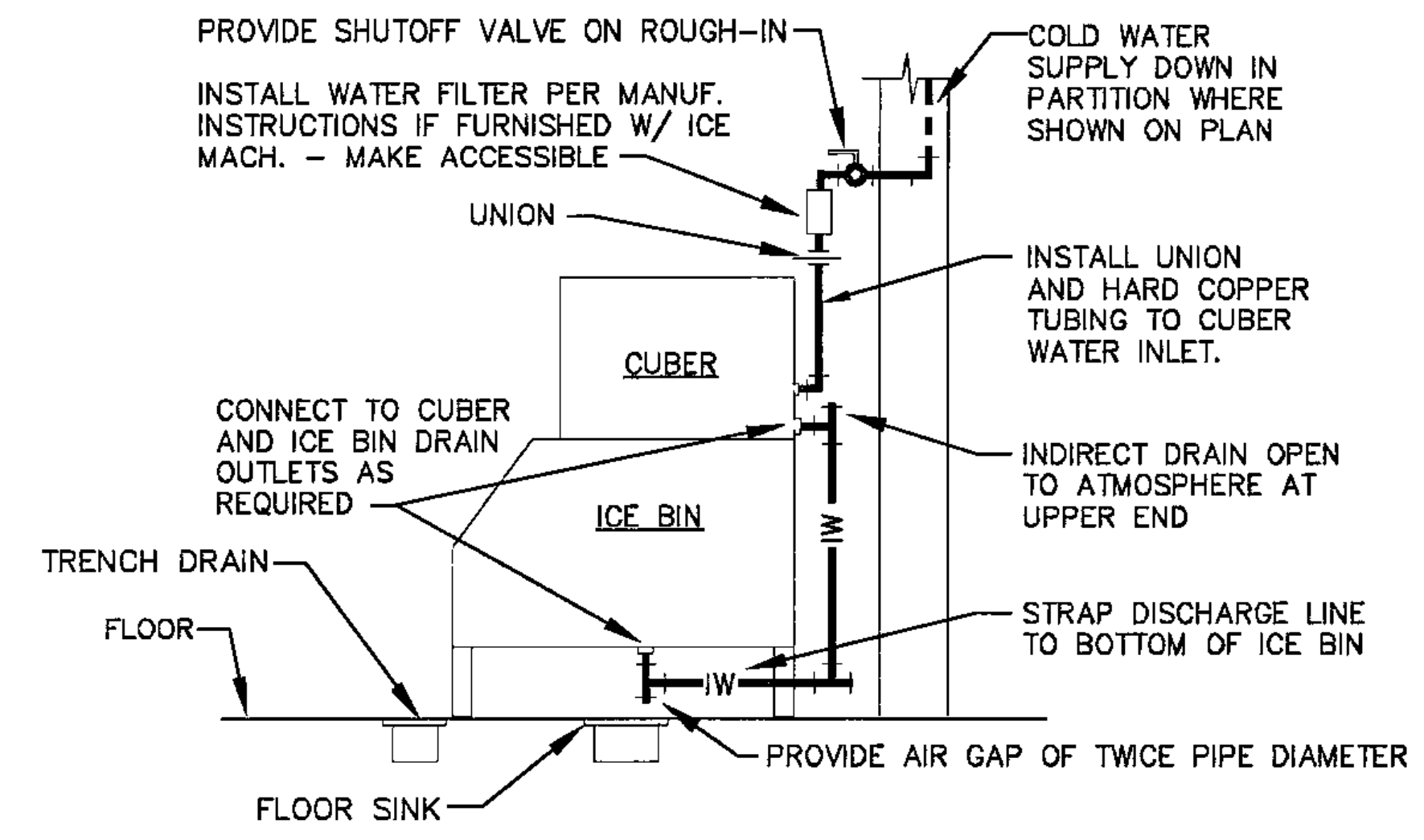
04/07/10
PLUMBING FIXTURE SCHEDULES

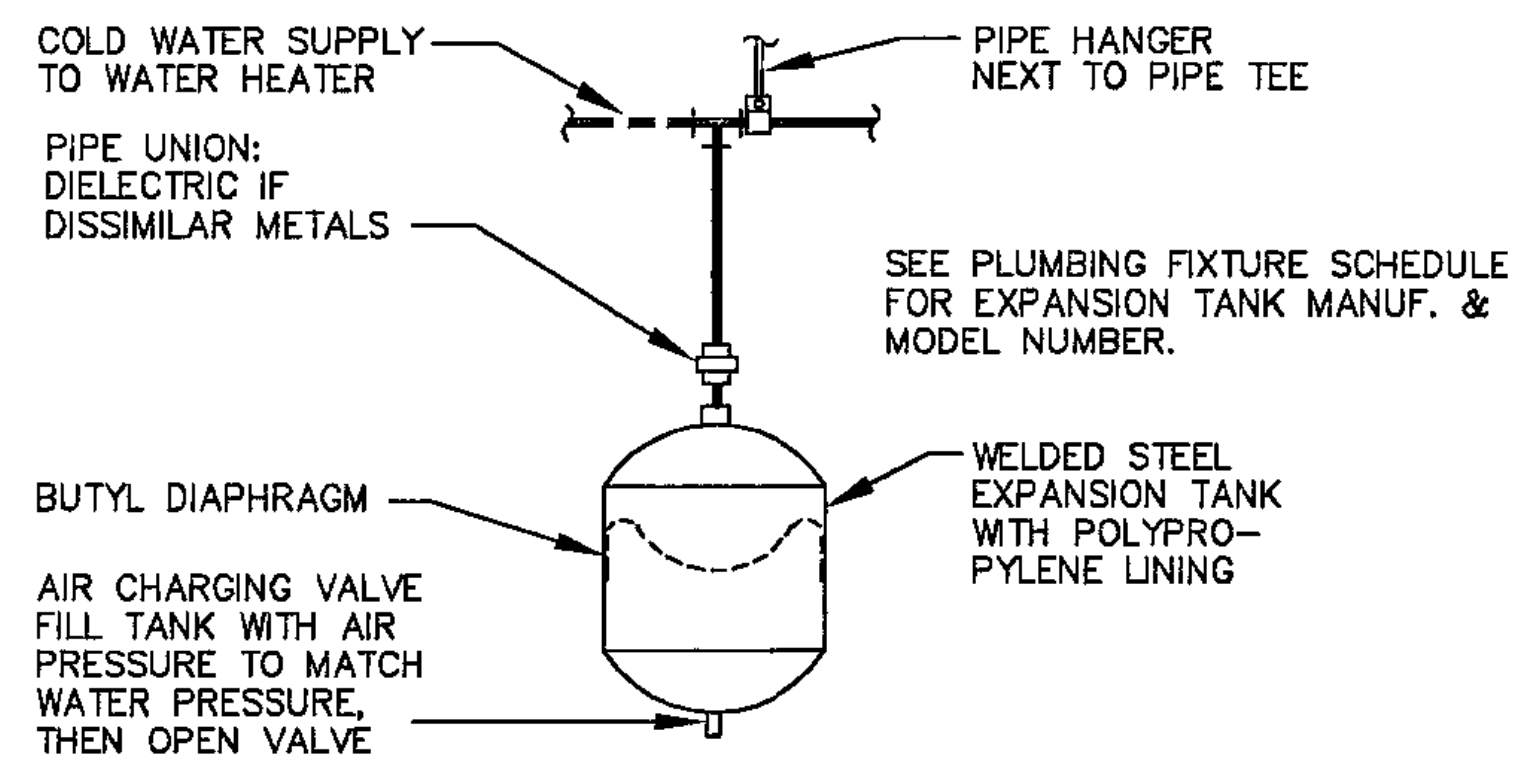
P3.1


PROVIDE SHUTOFF VALVE ON ROUGH-IN
INSTALL WATER FILTER PER MANUF. INSTRUCTIONS IF FURNISHED W/ ICE MACH. - MAKE ACCESSIBLE
UNION
COLD WATER SUPPLY DOWN IN PARTITION WHERE SHOWN ON PLAN
INSTALL UNION AND HARD COPPER TUBING TO CUBER WATER INLET.
CUBER
CONNECT TO CUBER AND ICE BIN DRAIN OUTLETS AS REQUIRED
ICE BIN
IW
INDIRECT DRAIN OPEN TO ATMOSPHERE AT UPPER END
TRENCH DRAIN
FLOOR
STRAP DISCHARGE LINE TO BOTTOM OF ICE BIN
PROVIDE AIR GAP OF TWICE PIPE DIAMETER
FLOOR SINK

PROVIDE TRENCH DRAIN & FLOOR SINK AS SHOWN ON FLOOR PLANS.

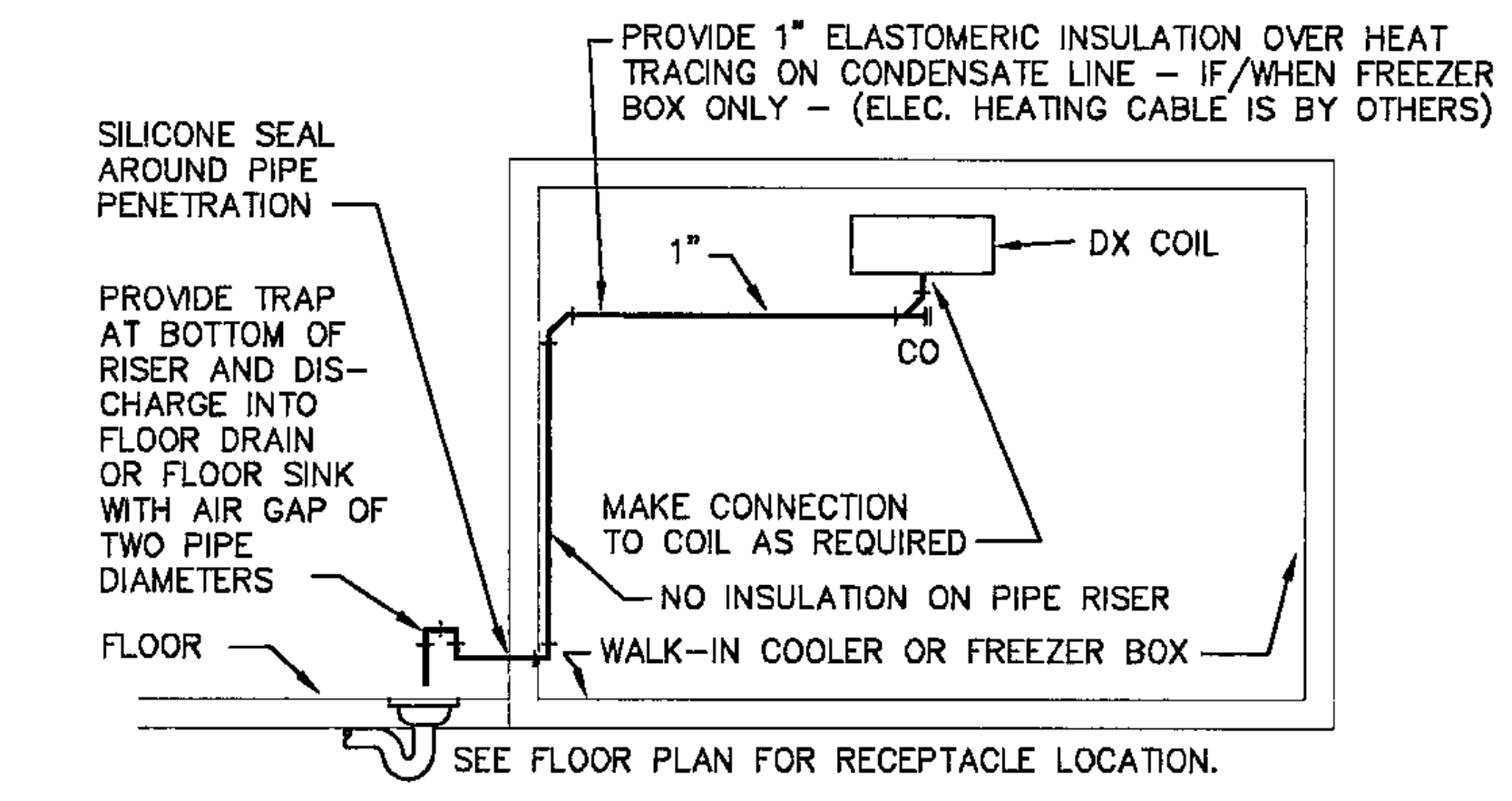
PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

01 ICE MACHINE DETAIL
SCALE: NONE


COLD WATER SUPPLY TO WATER HEATER
PIPE HANGER NEXT TO PIPE TEE
PIPE UNION: DIELECTRIC IF DISSIMILAR METALS
SEE PLUMBING FIXTURE SCHEDULE FOR EXPANSION TANK MANUF. & MODEL NUMBER.
BUTYL DIAPHRAGM
WELDED STEEL EXPANSION TANK WITH POLYPROPYLENE LINING
AIR CHARGING VALVE FILL TANK WITH AIR PRESSURE TO MATCH WATER PRESSURE, THEN OPEN VALVE

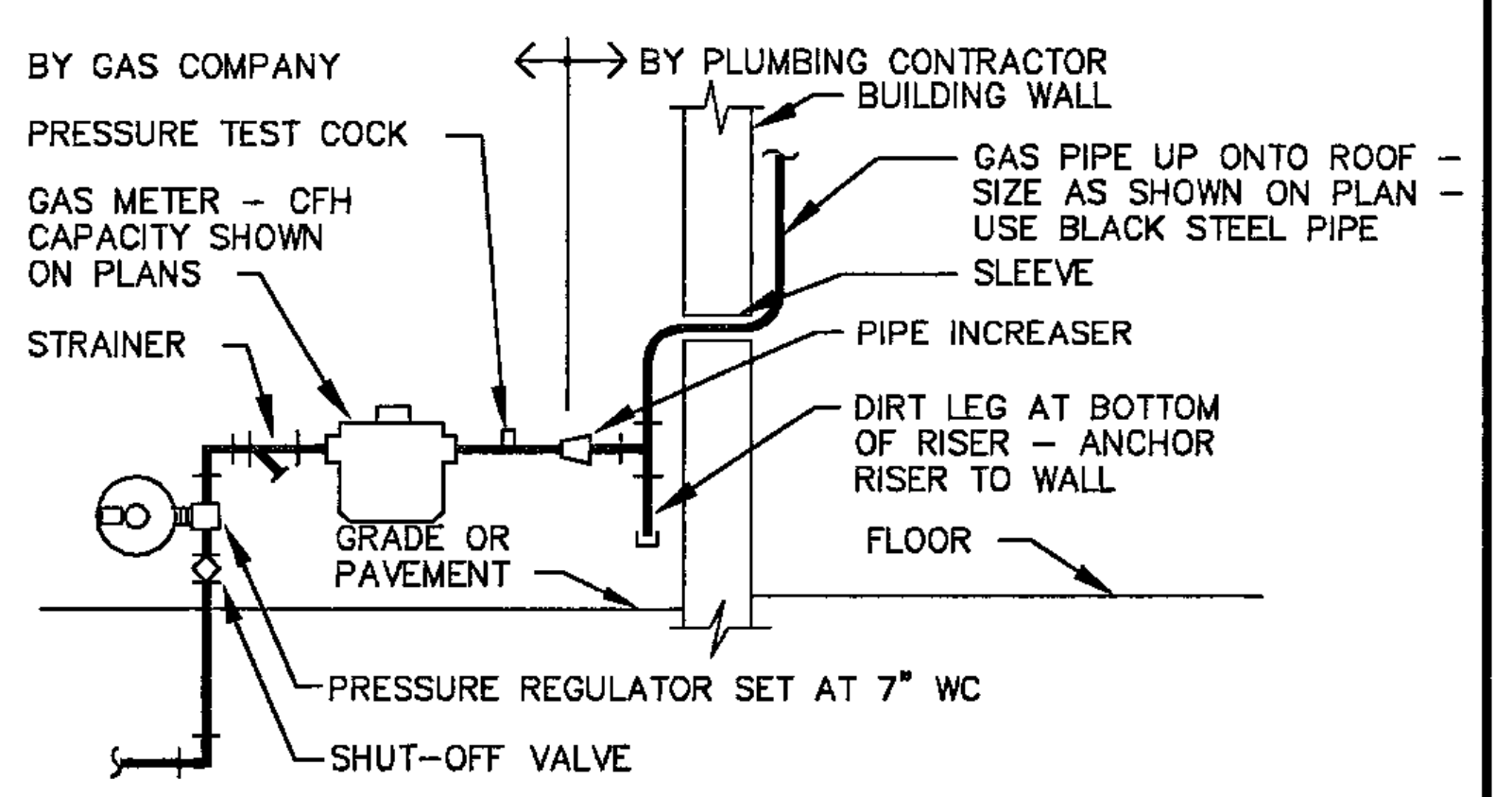
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

02 EXPANSION TANK DETAIL
SCALE: NONE


PROVIDE 1" ELASTOMERIC INSULATION OVER HEAT TRACING ON CONDENSATE LINE - IF/WHEN FREEZER BOX ONLY - (ELEC. HEATING CABLE IS BY OTHERS)
SILICONE SEAL AROUND PIPE PENETRATION
1"
DX COIL
CO
PROVIDE TRAP AT BOTTOM OF RISER AND DISCHARGE INTO FLOOR DRAIN OR FLOOR SINK WITH AIR GAP OF TWO PIPE DIAMETERS
MAKE CONNECTION TO COIL AS REQUIRED
NO INSULATION ON PIPE RISER
FLOOR
WALK-IN COOLER OR FREEZER BOX
SEE FLOOR PLAN FOR RECEPTACLE LOCATION.

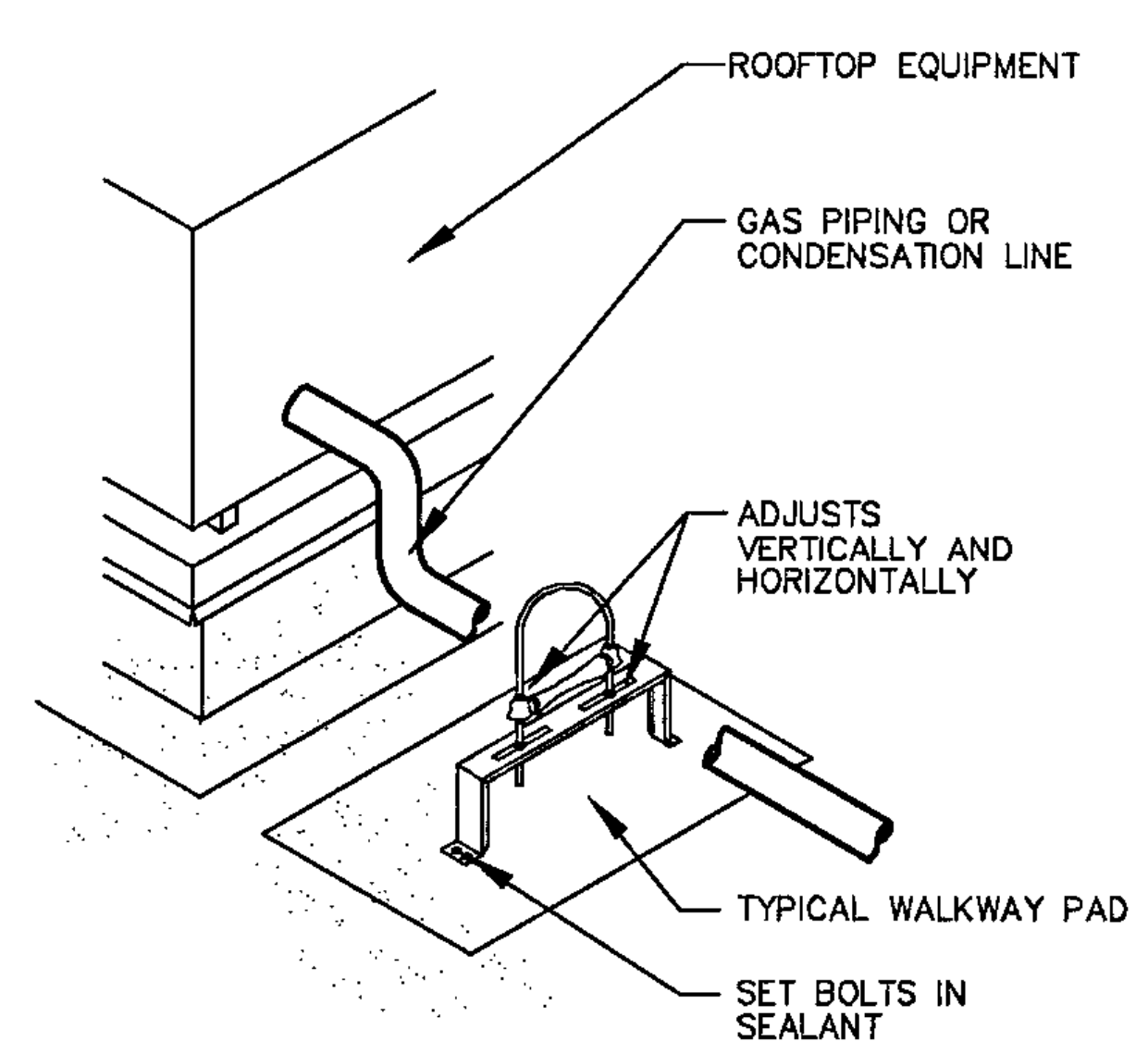
INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

03 CONDENSATE DRAIN DETAIL
SCALE: NONE

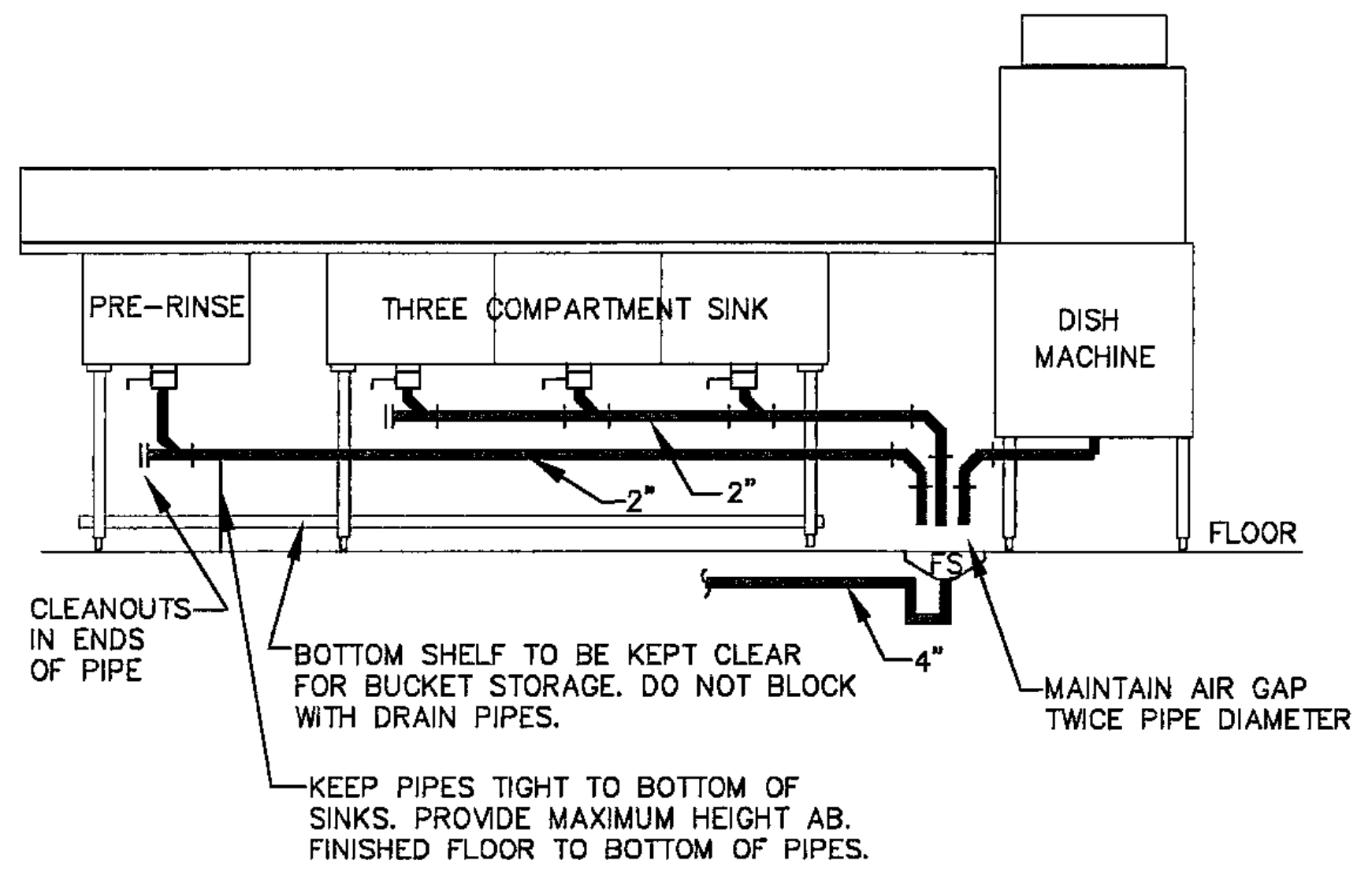

BY GAS COMPANY
BY PLUMBING CONTRACTOR
BUILDING WALL
PRESSURE TEST COCK
GAS METER - CFH CAPACITY SHOWN ON PLANS
GAS PIPE UP ONTO ROOF - SIZE AS SHOWN ON PLAN - USE BLACK STEEL PIPE
SLEEVE
STRAINER
PIPE INCREASER
DIRT LEG AT BOTTOM OF RISER - ANCHOR RISER TO WALL
GRADE OR PAVEMENT
FLOOR
PRESSURE REGULATOR SET AT 7" WC
SHUT-OFF VALVE

VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. CONTRACTOR SHALL PAY ALL GAS COMPANY FEES FOR INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER PLUMBING SPECS.

04 GAS METER DETAIL
SCALE: NONE


ROOFTOP EQUIPMENT
GAS PIPING OR CONDENSATION LINE
ADJUSTS VERTICALLY AND HORIZONTALLY
TYPICAL WALKWAY PAD
SET BOLTS IN SEALANT

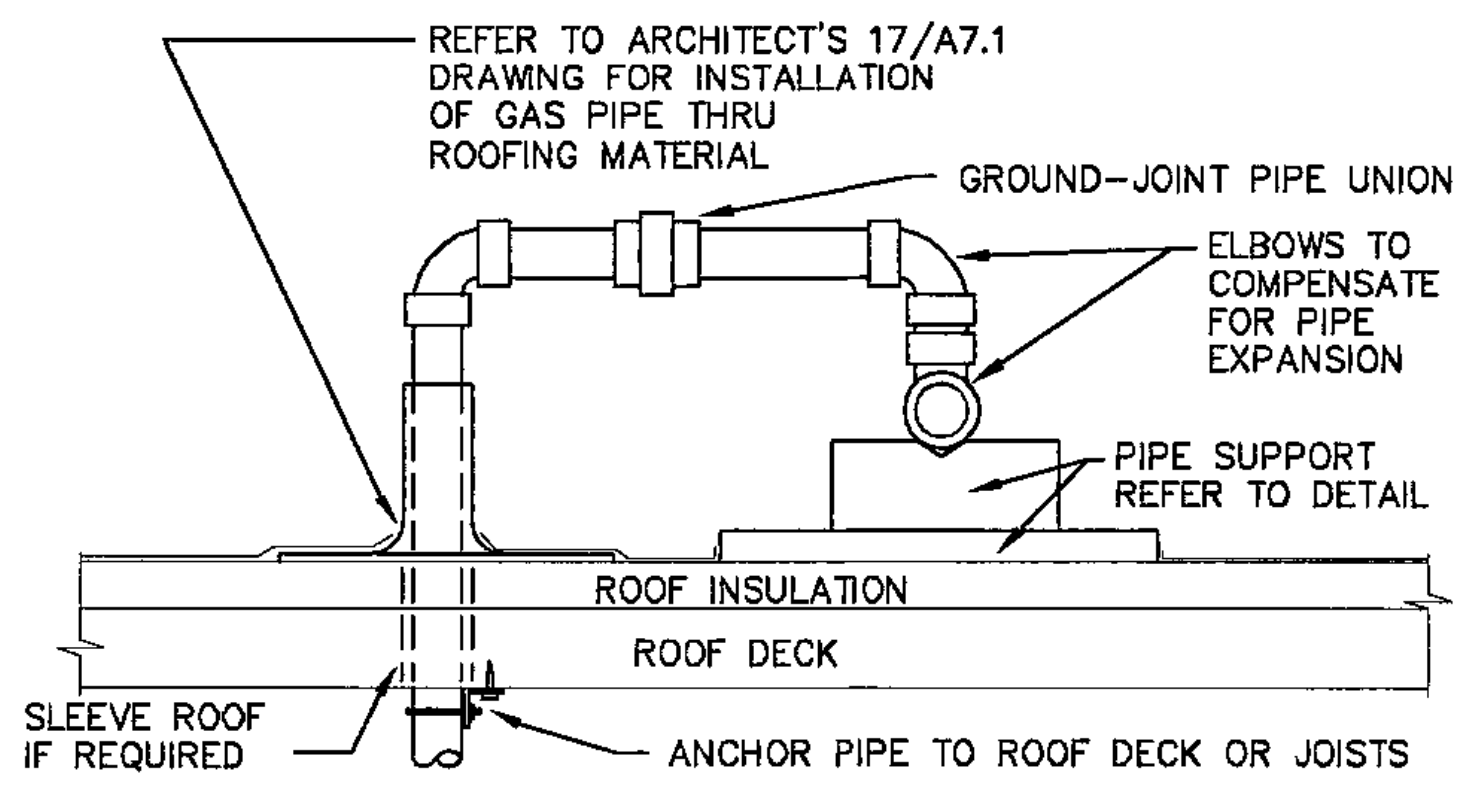
05 PIPE SUPPORT DETAIL
SCALE: NONE


PRE-RINSE
THREE COMPARTMENT SINK
DISH MACHINE
2"
2"
FLOOR
FS
4"
CLEANOUTS IN ENDS OF PIPE
BOTTOM SHELF TO BE KEPT CLEAR FOR BUCKET STORAGE. DO NOT BLOCK WITH DRAIN PIPES.
MAINTAIN AIR GAP TWICE PIPE DIAMETER
KEEP PIPES TIGHT TO BOTTOM OF SINKS. PROVIDE MAXIMUM HEIGHT AB. FINISHED FLOOR TO BOTTOM OF PIPES.

ROUTE COMBINED SANITARY DRAIN LINE TO WALL. ROUTE VENT UP, AND SANITARY DOWN AS SHOWN ON PLANS.

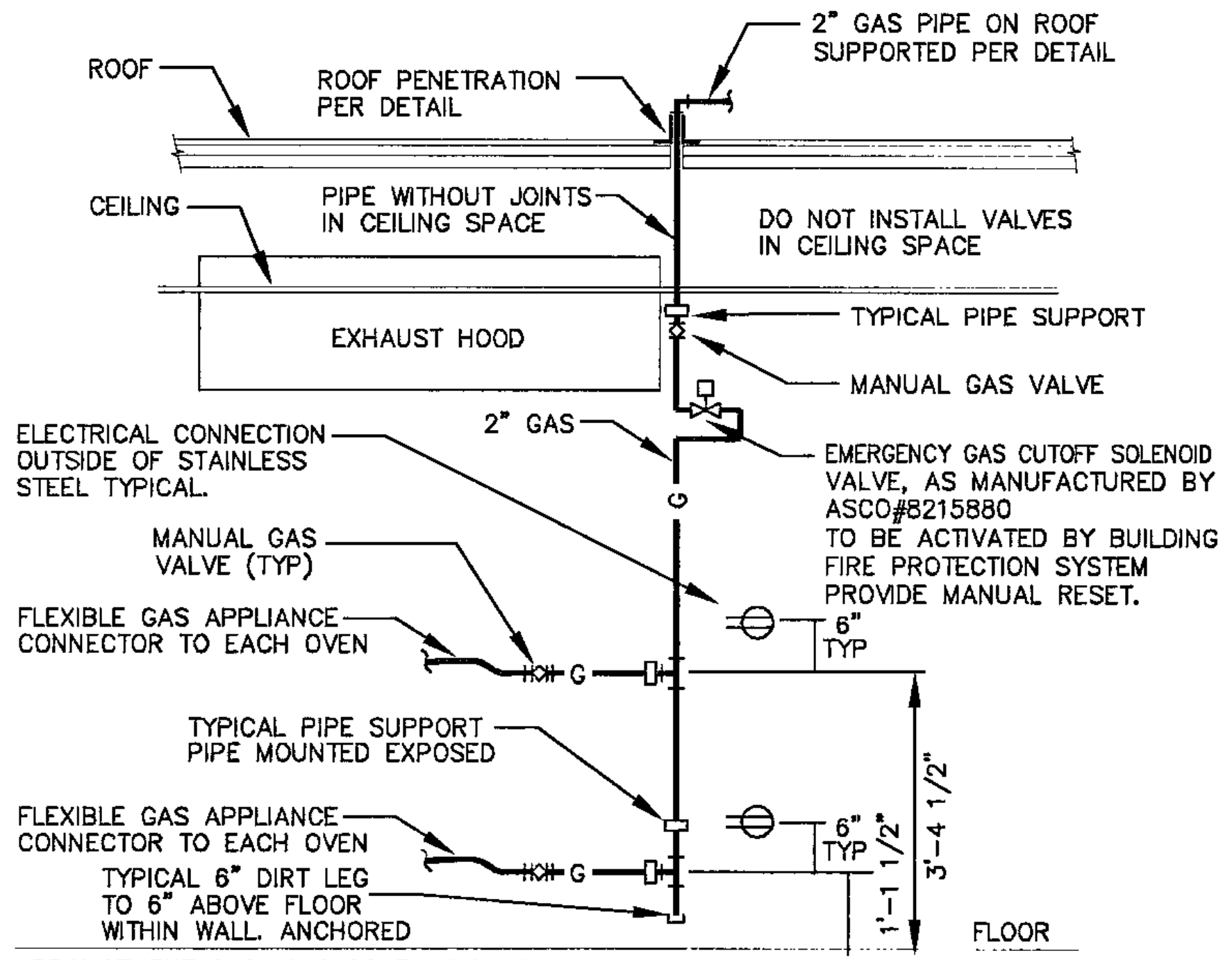
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. SCHEDULE 40 PVC PIPE, FITTINGS AND CONNECTORS ALL AROUND SINKS.

06 DISH AREA DRAIN DETAIL
SCALE: NONE


REFER TO ARCHITECT'S 17/A7.1 DRAWING FOR INSTALLATION OF GAS PIPE THRU ROOFING MATERIAL
GROUND-JOINT PIPE UNION
ELBOWS TO COMPENSATE FOR PIPE EXPANSION
PIPE SUPPORT REFER TO DETAIL
ROOF INSULATION
ROOF DECK
SLEEVE ROOF IF REQUIRED
ANCHOR PIPE TO ROOF DECK OR JOISTS

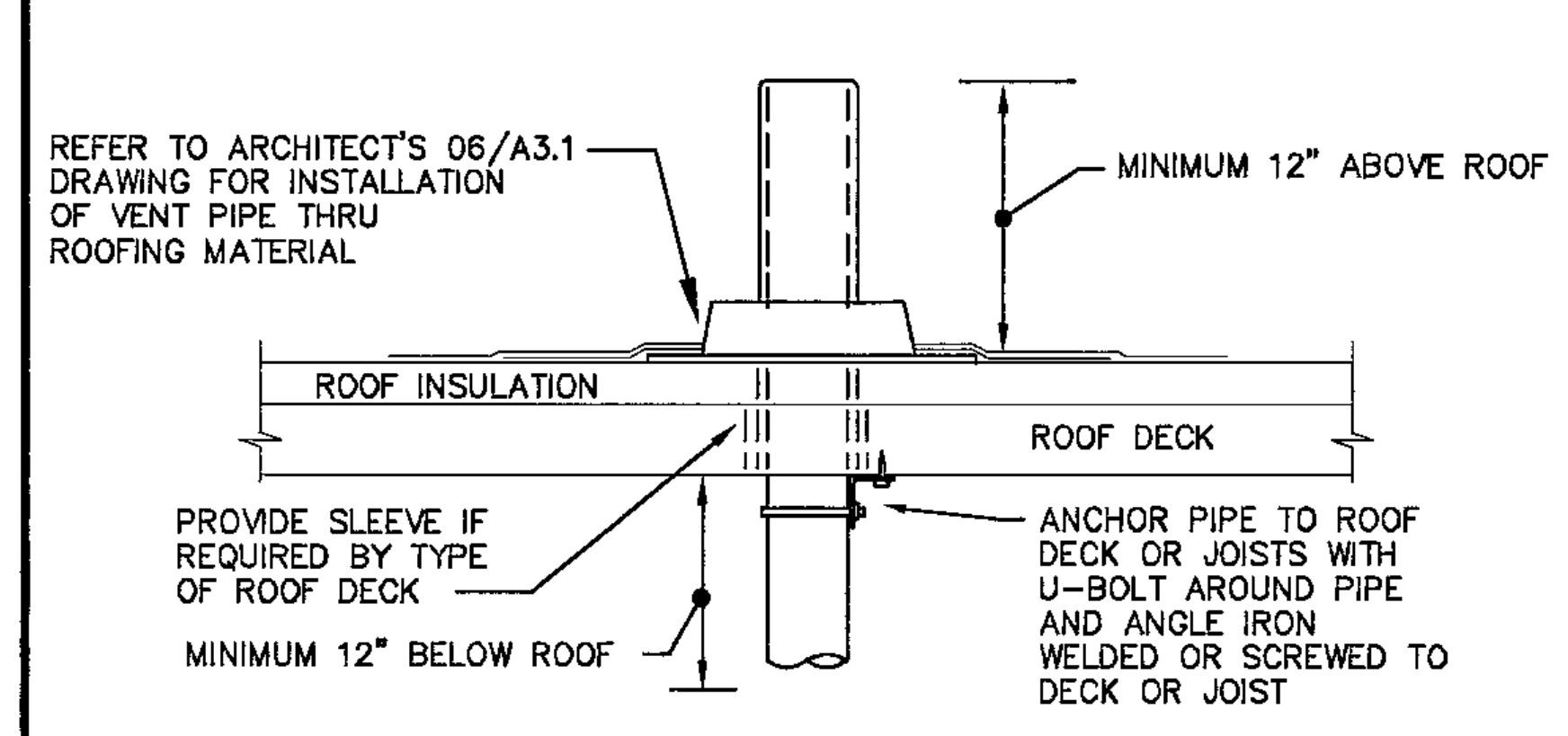
REFER TO PLANS FOR PIPE SIZE(S) AND LOCATION(S). USE WELDED OR SCREWED FITTINGS AS SPECIFIED FOR PIPE SIZE. LOCATE PENETRATION MINIMUM 18" FROM ADJACENT WALLS.

07 ROOF PENETRATION DETAIL
SCALE: NONE


2" GAS PIPE ON ROOF SUPPORTED PER DETAIL
ROOF
ROOF PENETRATION PER DETAIL
CEILING
PIPE WITHOUT JOINTS IN CEILING SPACE
DO NOT INSTALL VALVES IN CEILING SPACE
EXHAUST HOOD
TYPICAL PIPE SUPPORT
MANUAL GAS VALVE
2" GAS
ELECTRICAL CONNECTION OUTSIDE OF STAINLESS STEEL TYPICAL.
EMERGENCY GAS CUTOFF SOLENOID VALVE, AS MANUFACTURED BY ASCO#8215880 TO BE ACTIVATED BY BUILDING FIRE PROTECTION SYSTEM PROVIDE MANUAL RESET.
MANUAL GAS VALVE (TYP)
FLEXIBLE GAS APPLIANCE CONNECTOR TO EACH OVEN
G
6" TYP
TYPICAL PIPE SUPPORT PIPE MOUNTED EXPOSED
FLEXIBLE GAS APPLIANCE CONNECTOR TO EACH OVEN
6" TYP
3'-4 1/2"
1'-1 1/2"
TYPICAL 6" DIRT LEG TO 6" ABOVE FLOOR WITHIN WALL. ANCHORED
FLOOR

ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. RUN CONTINUOUS PIPE RISER & HEADER EXPOSED ON WALL. NO FLEX PIPE, COUPLINGS, VALVES OR UNIONS TO BE INSTALLED BEHIND WALL, THEY MUST BE EXPOSED. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS CONCEALED AND UNSLEEVED ABOVE THE CEILING.

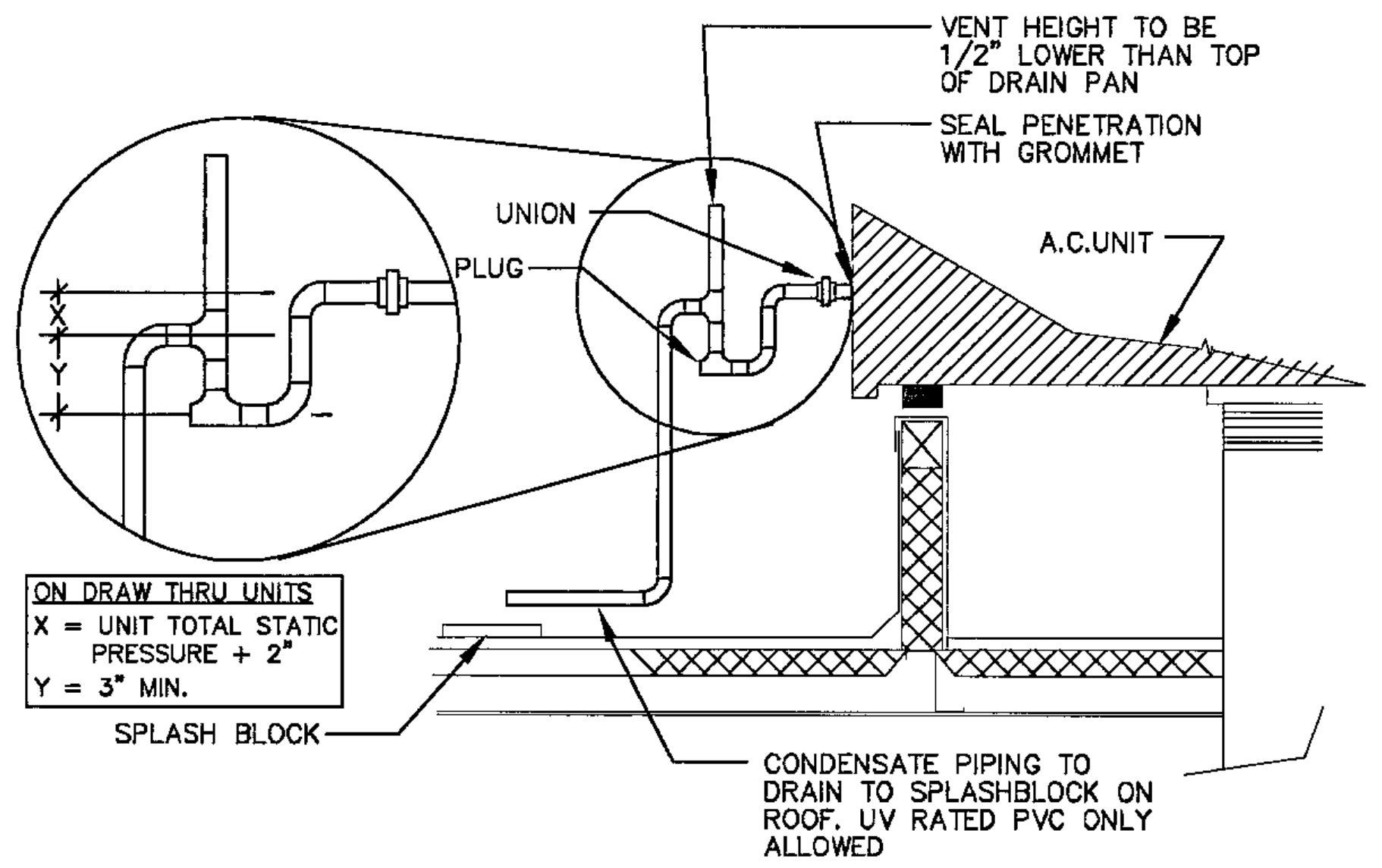
08 GAS PIZZA OVEN DETAIL
SCALE: NONE


REFER TO ARCHITECT'S 06/A3.1 DRAWING FOR INSTALLATION OF VENT PIPE THRU ROOFING MATERIAL
MINIMUM 12" ABOVE ROOF
ROOF INSULATION
ROOF DECK
PROVIDE SLEEVE IF REQUIRED BY TYPE OF ROOF DECK
ANCHOR PIPE TO ROOF DECK OR JOISTS WITH U-BOLT AROUND PIPE AND ANGLE IRON WELDED OR SCREWED TO DECK OR JOIST
MINIMUM 12" BELOW ROOF

REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND CONTERFLASHING WITH ROOFING CONTRACTOR.

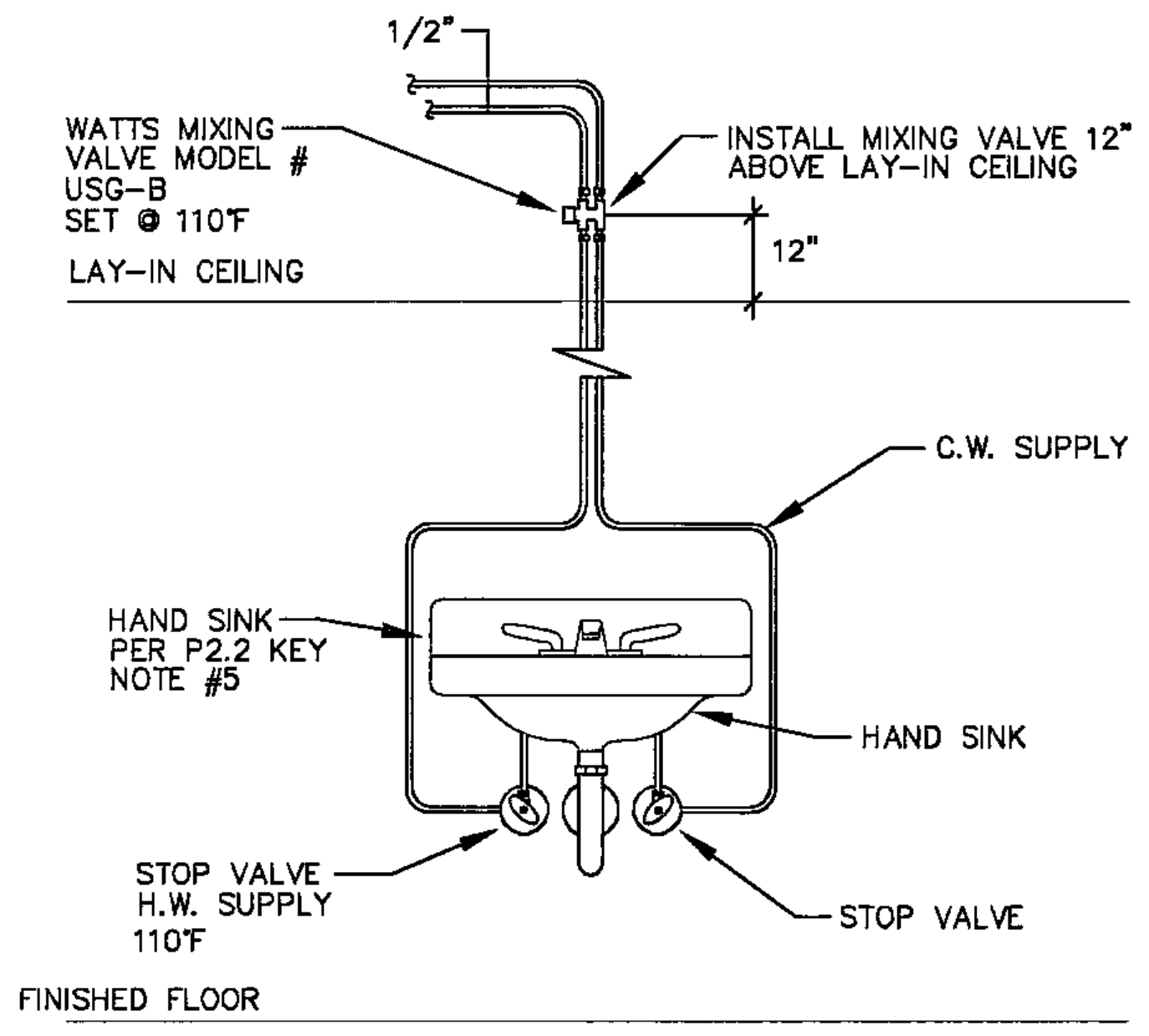
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. ATTACH RISER & HEADER TO WALL WITH 1" CLEARANCE BEHIND PIPE. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION

09 VENT PENETRATION DETAIL
SCALE: NONE


VENT HEIGHT TO BE 1/2" LOWER THAN TOP OF DRAIN PAN
SEAL PENETRATION WITH GROMMET
UNION
PLUG
A.C.UNIT
X
Y
SPLASH BLOCK
CONDENSATE PIPING TO DRAIN TO SPLASHBLOCK ON ROOF. UV RATED PVC ONLY ALLOWED

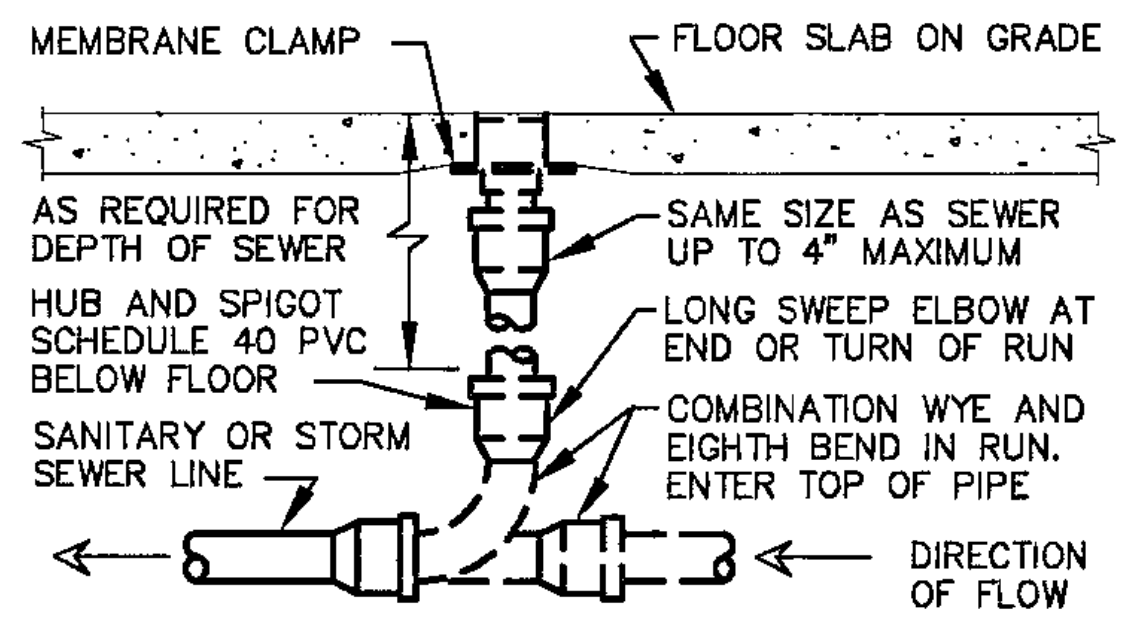
ON DRAW THRU UNITS
X = UNIT TOTAL STATIC PRESSURE + 2"
Y = 3" MIN.

10 CONDENSATE DETAIL
SCALE: NONE


1/2"
WATTS MIXING VALVE MODEL # USG-B SET @ 110°F
INSTALL MIXING VALVE 12" ABOVE LAY-IN CEILING
12"
LAY-IN CEILING
C.W. SUPPLY
HAND SINK PER P2.2 KEY NOTE #5
HAND SINK
STOP VALVE H.W. SUPPLY 110°F
STOP VALVE
FINISHED FLOOR

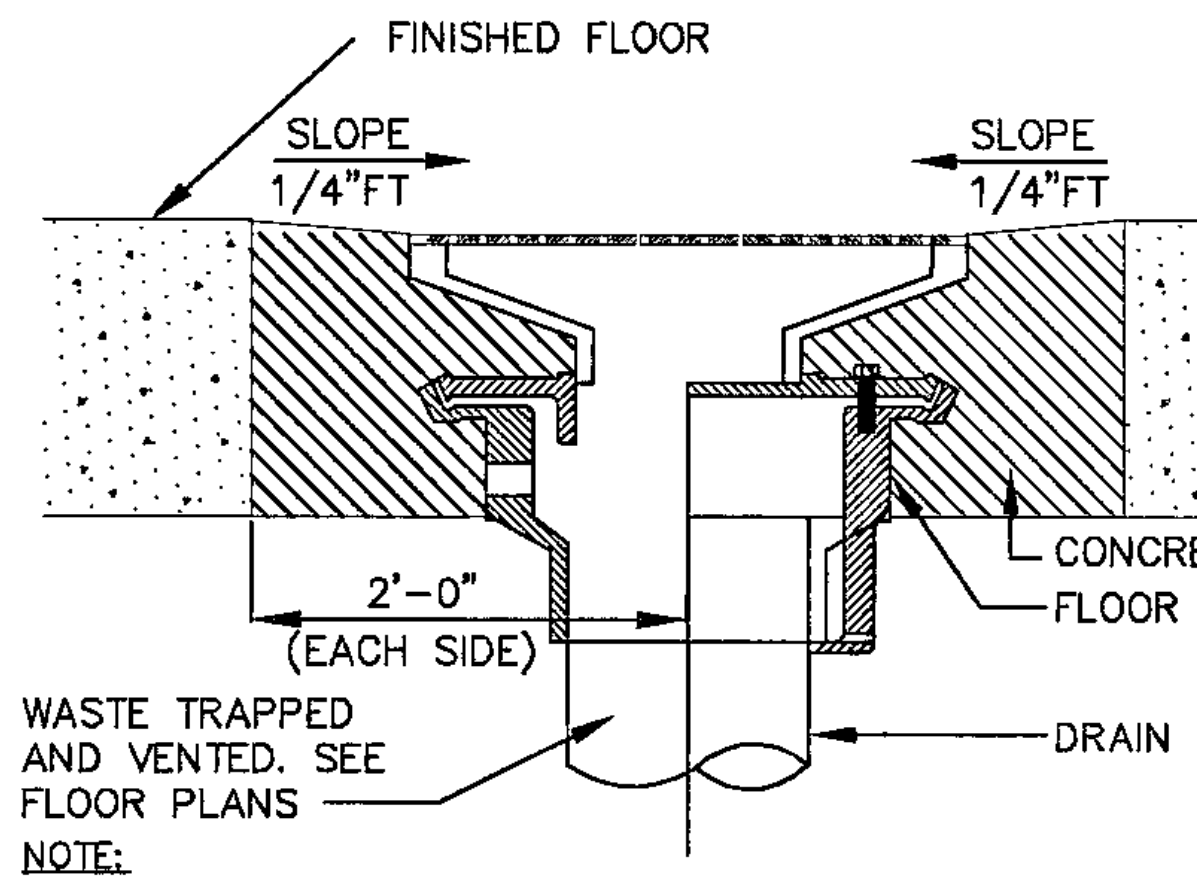
11 MV-1 HAND SINK DETAIL
SCALE: NONE

PROVIDE ROUND SECURED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE BRONZE PLUG IN CAST IRON BODY.


MEMBRANE CLAMP
FLOOR SLAB ON GRADE
AS REQUIRED FOR DEPTH OF SEWER
SAME SIZE AS SEWER UP TO 4" MAXIMUM
HUB AND SPIGOT SCHEDULE 40 PVC BELOW FLOOR
LONG SWEEP ELBOW AT END OR TURN OF RUN
SANITARY OR STORM SEWER LINE
COMBINATION WYE AND EIGHTH BEND IN RUN. ENTER TOP OF PIPE
DIRECTION OF FLOW

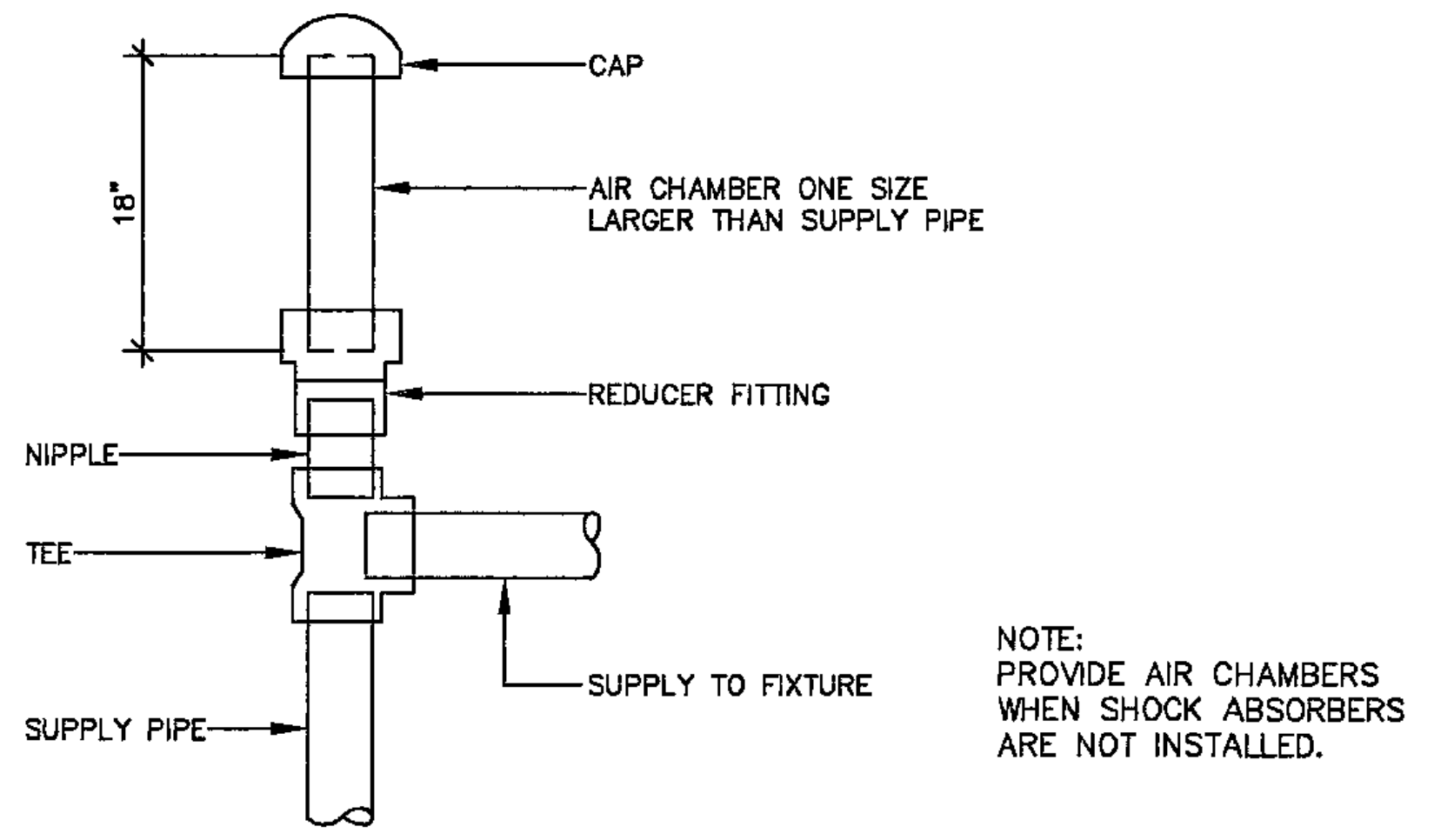
LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

12 FLOOR CLEANOUT DETAIL
SCALE: NONE



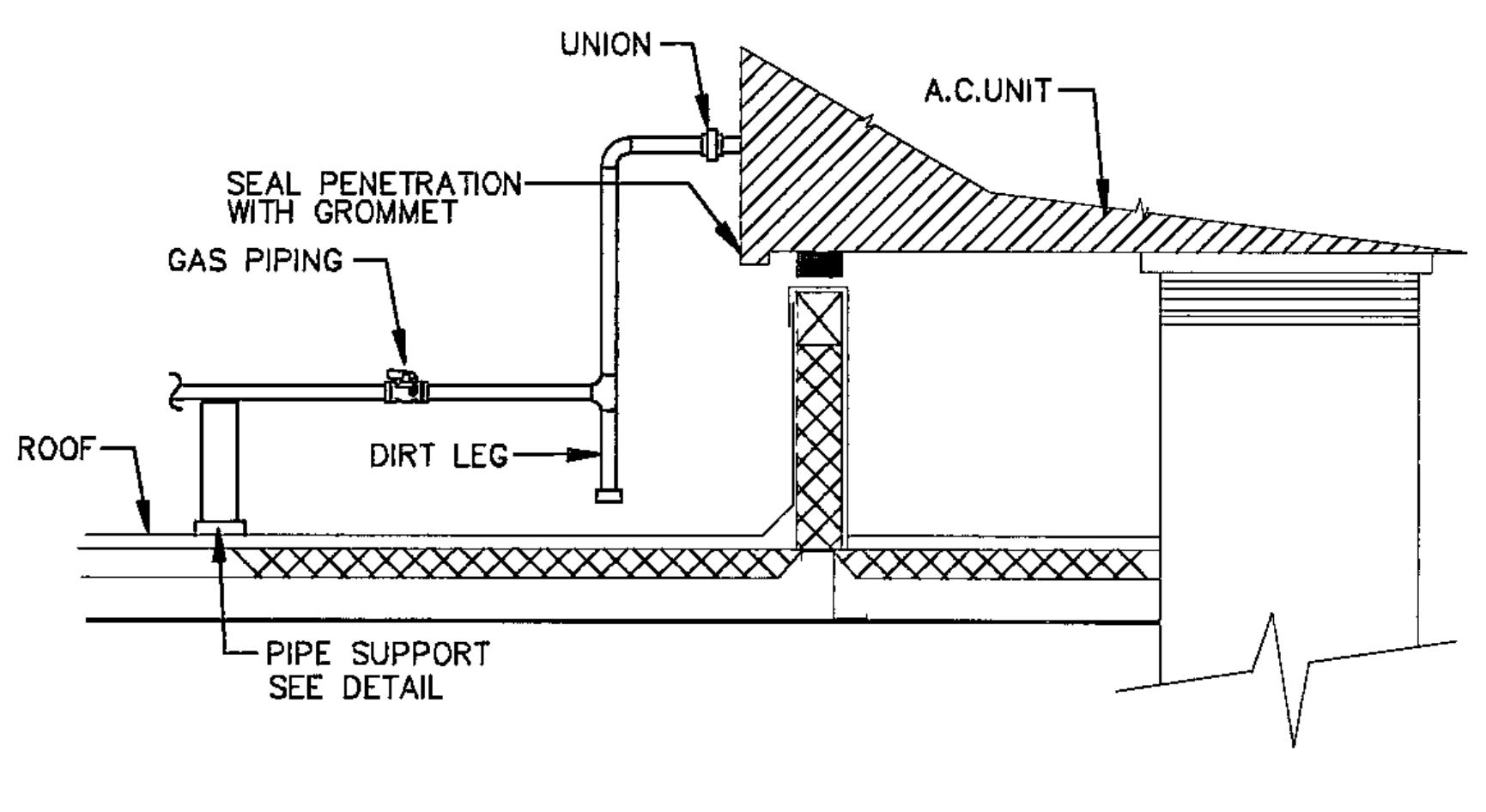
NOTE:
SLOPE CONCRETE FLOOR TO CENTER OF DRAIN @ 1/4" PER FT. MAX. 4'-0" DIAMETER

13 FLOOR DRAIN DETAIL
SCALE: NONE

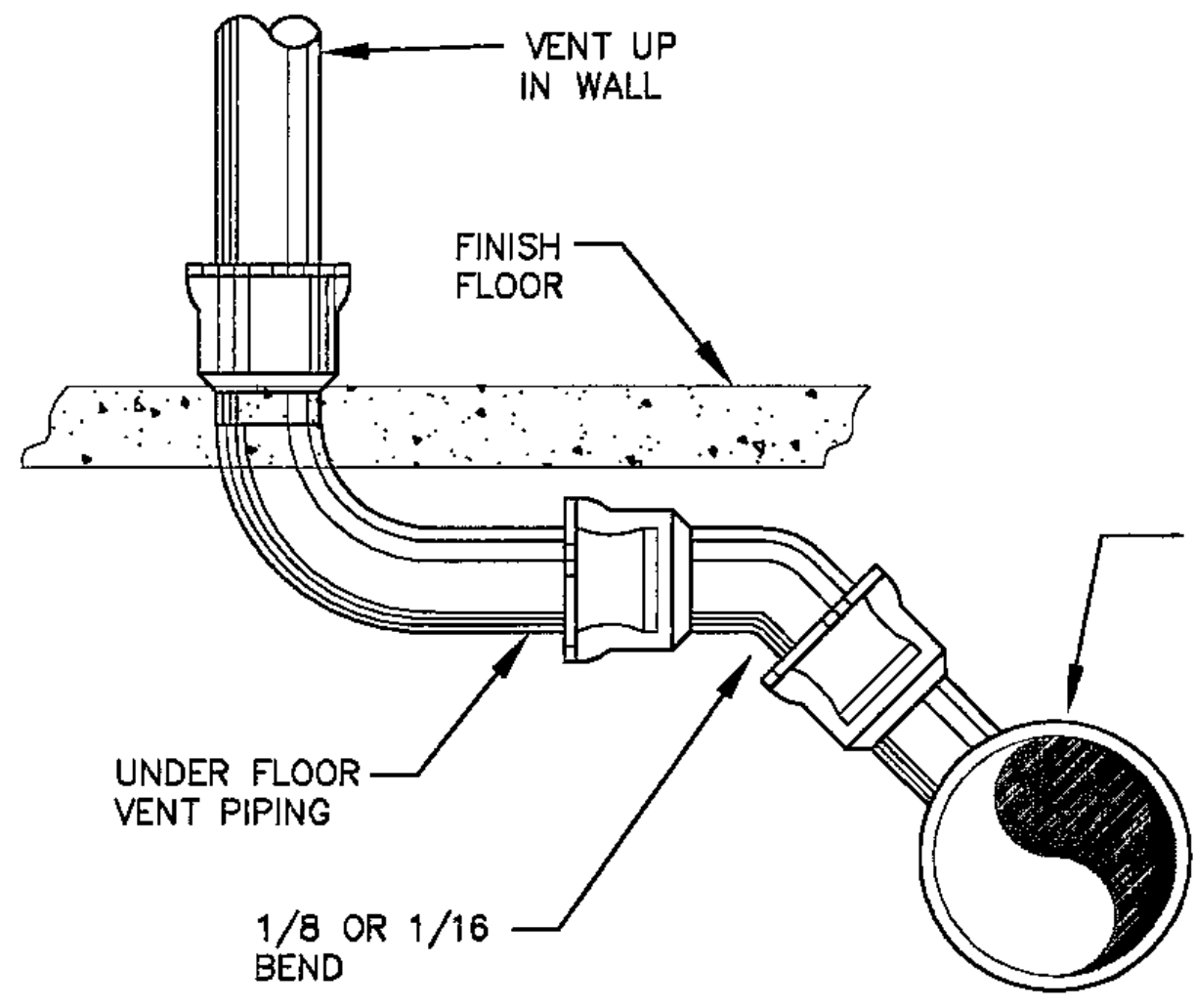


NOTE:
PROVIDE AIR CHAMBERS WHEN SHOCK ABSORBERS ARE NOT INSTALLED.

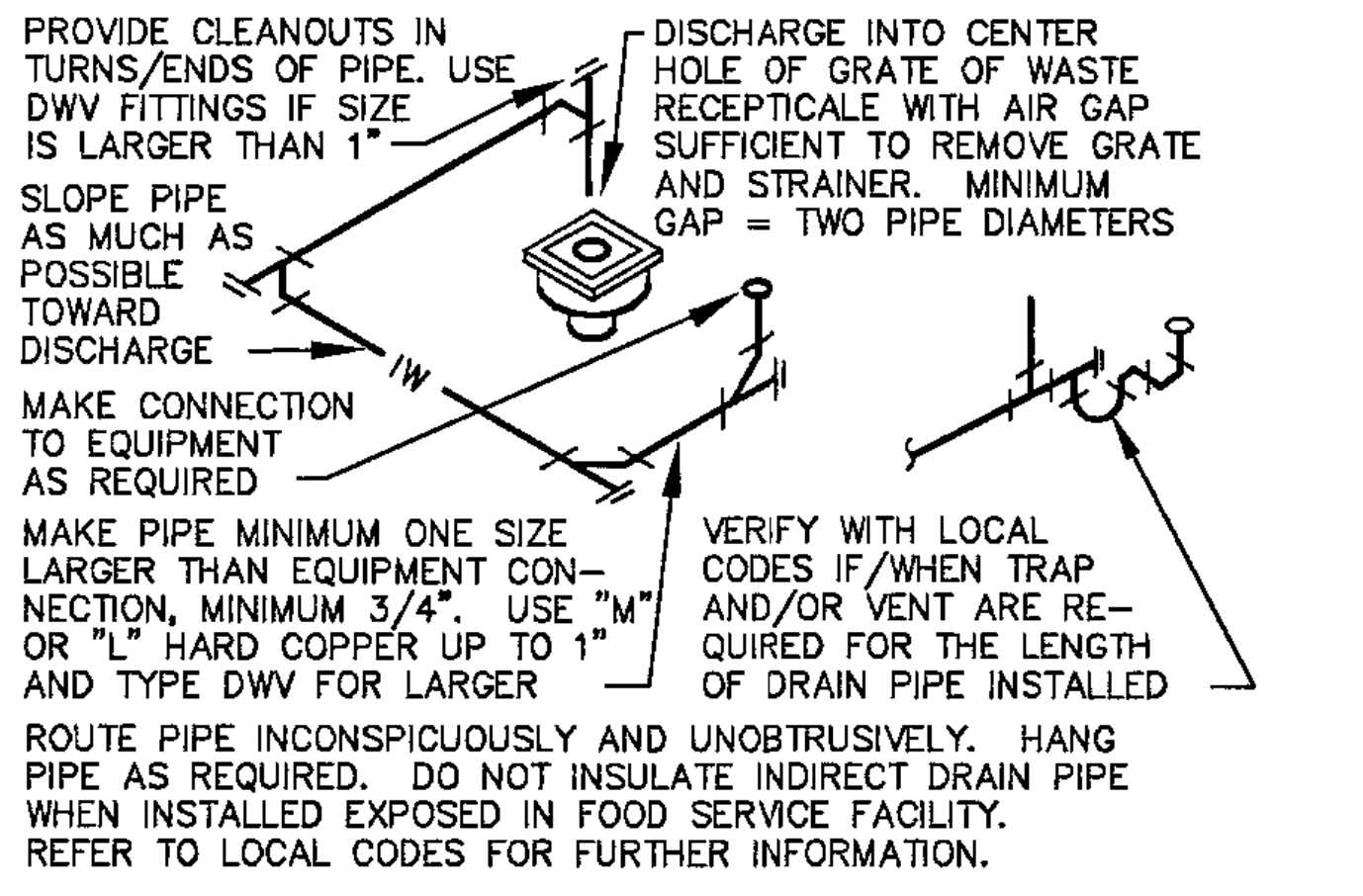
14 AIR CHAMBER DETAIL
SCALE: NONE



15 RTU GAS DETAIL
SCALE: NONE



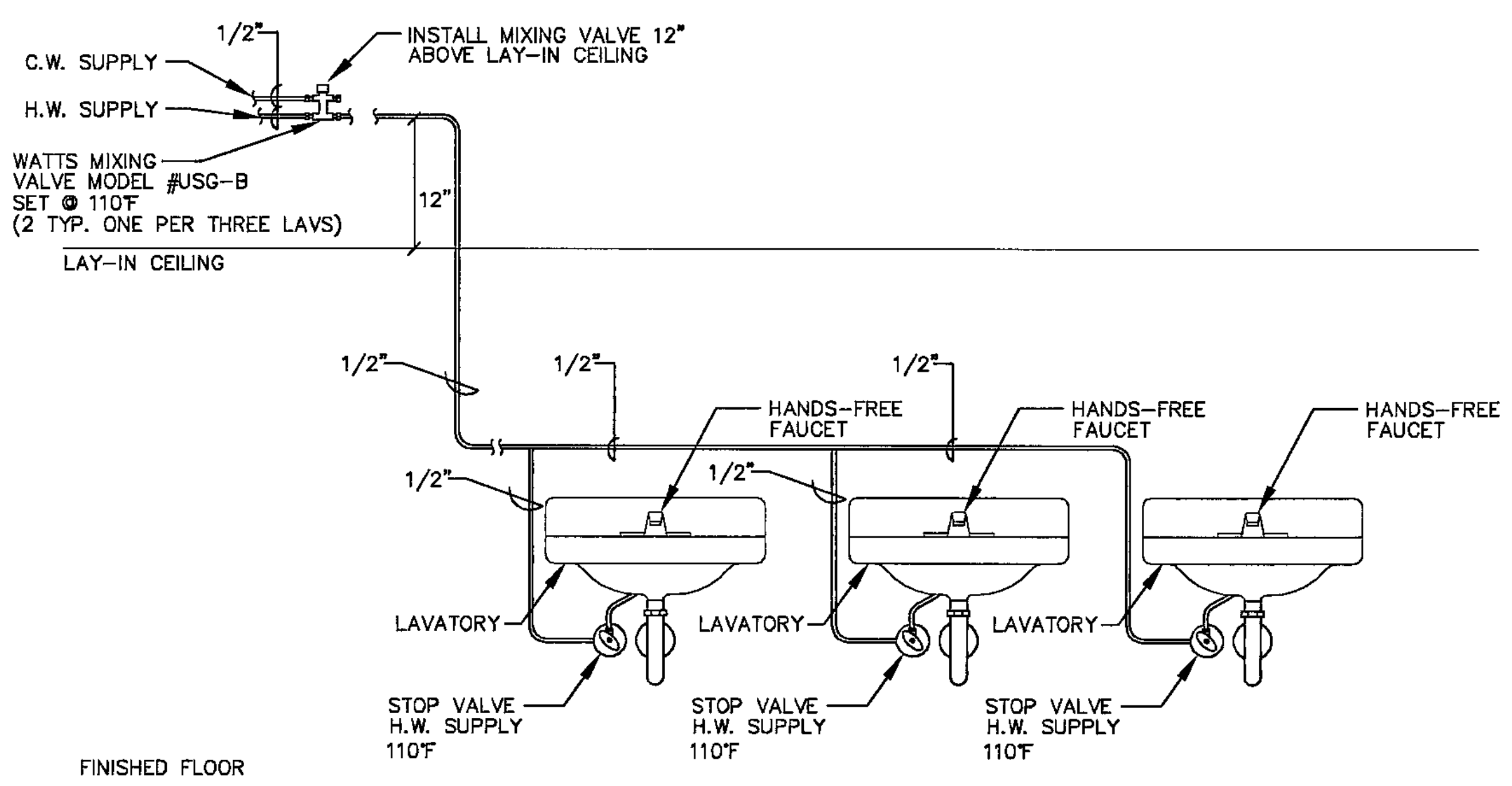
16 UNDER FLOOR VENT DETAIL
SCALE: NONE


PROVIDE CLEANOUTS IN TURNS/ENDS OF PIPE. USE DWV FITTINGS IF SIZE IS LARGER THAN 1"
DISCHARGE INTO CENTER HOLE OF GRATE OF WASTE RECEPTICALE WITH AIR GAP SUFFICIENT TO REMOVE GRATE AND STRAINER. MINIMUM GAP = TWO PIPE DIAMETERS
SLOPE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE
IW
MAKE CONNECTION TO EQUIPMENT AS REQUIRED
MAKE PIPE MINIMUM ONE SIZE LARGER THAN EQUIPMENT CONNECTION, MINIMUM 3/4". USE "M" OR "L" HARD COPPER UP TO 1" AND TYPE DWV FOR LARGER
VERIFY WITH LOCAL CODES IF/WHEN TRAP AND/OR VENT ARE REQUIRED FOR THE LENGTH OF DRAIN PIPE INSTALLED

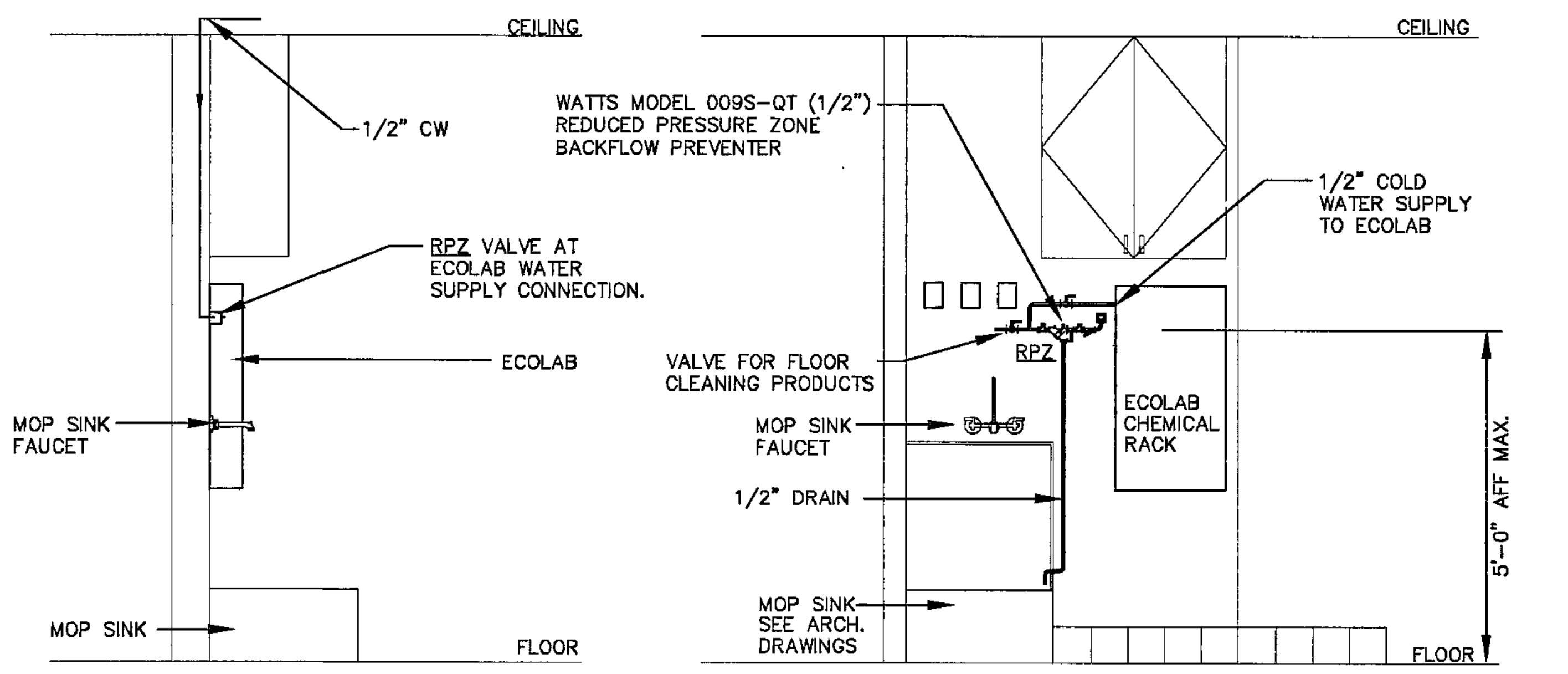
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

TYPICAL INDIRECT DRAIN FROM EQUIPMENT. ALL INDIRECT WASTE DRAIN PIPING SHALL TERMINATE WITH A 45° ANGLE CUT, TYPICAL. REMOVE ALL BURS AND FILE DOWN SHARP EDGES.

17 INDIRECT DRAIN DETAIL
SCALE: NONE


1/2"
C.W. SUPPLY
H.W. SUPPLY
INSTALL MIXING VALVE 12" ABOVE LAY-IN CEILING
WATTS MIXING VALVE MODEL #USG-B SET @ 110°F (2 TYP. ONE PER THREE LAVS)
12"
LAY-IN CEILING
1/2"
1/2"
1/2"
1/2"
1/2"
HANDS-FREE FAUCET
HANDS-FREE FAUCET
HANDS-FREE FAUCET
LAVATORY
LAVATORY
LAVATORY
STOP VALVE H.W. SUPPLY 110°F
STOP VALVE H.W. SUPPLY 110°F
STOP VALVE H.W. SUPPLY 110°F
FINISHED FLOOR

18 MV-1 LAVATORY MIXING VALVE DETAIL
SCALE: NONE


CEILING
1/2" CW
RPZ VALVE AT ECOLAB WATER SUPPLY CONNECTION.
ECOLAB
MOP SINK FAUCET
MOP SINK
FLOOR
CEILING
WATTS MODEL 009S-QT (1/2") REDUCED PRESSURE ZONE BACKFLOW PREVENTER
1/2" COLD WATER SUPPLY TO ECOLAB
VALVE FOR FLOOR CLEANING PRODUCTS
RPZ
MOP SINK FAUCET
ECOLAB CHEMICAL RACK
1/2" DRAIN
5'-0" AFF MAX.
MOP SINK SEE ARCH. DRAWINGS
FLOOR

19 ECOLAB/MOPSINK WATER SUPPLY DETAIL
SCALE: NONE

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

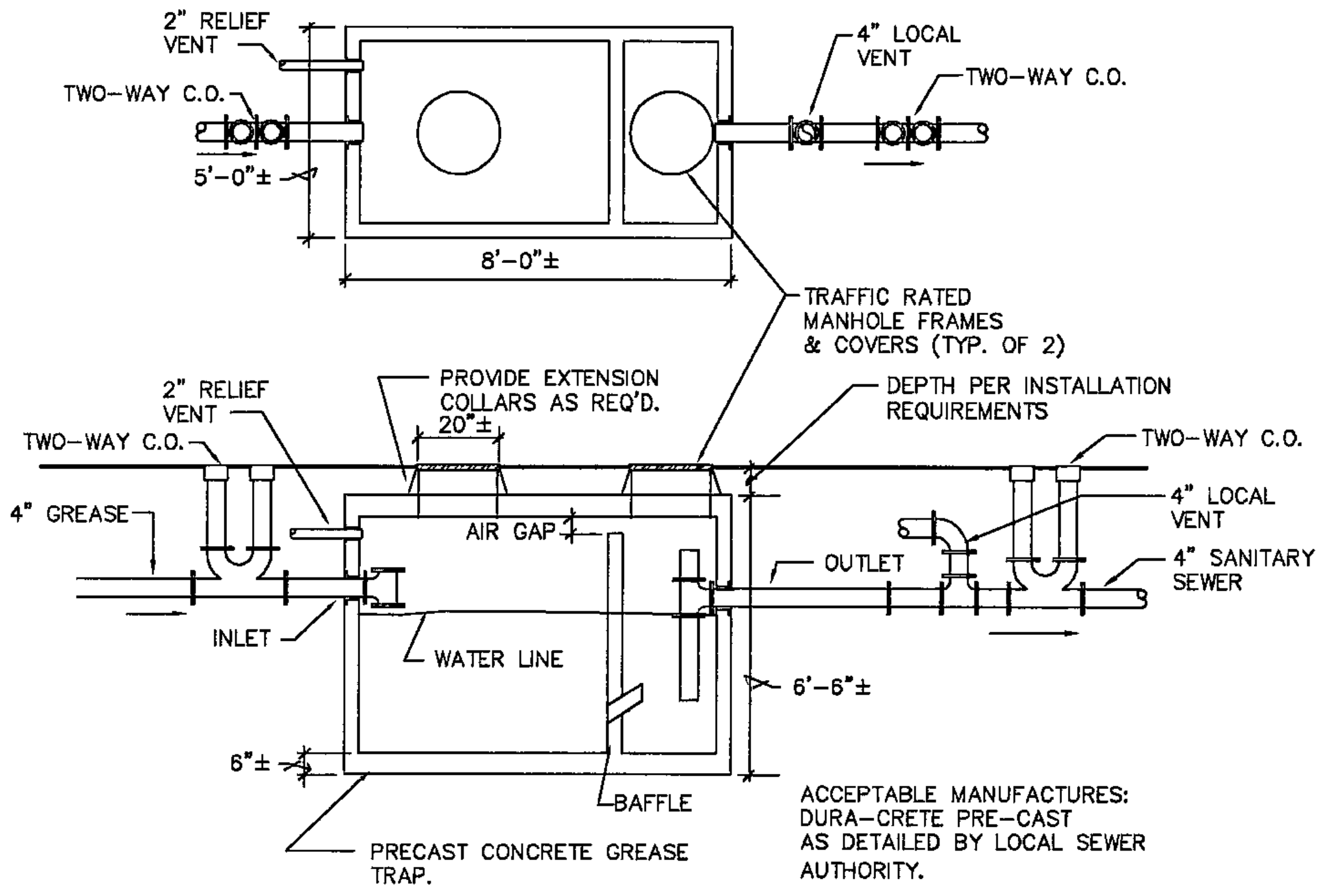
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

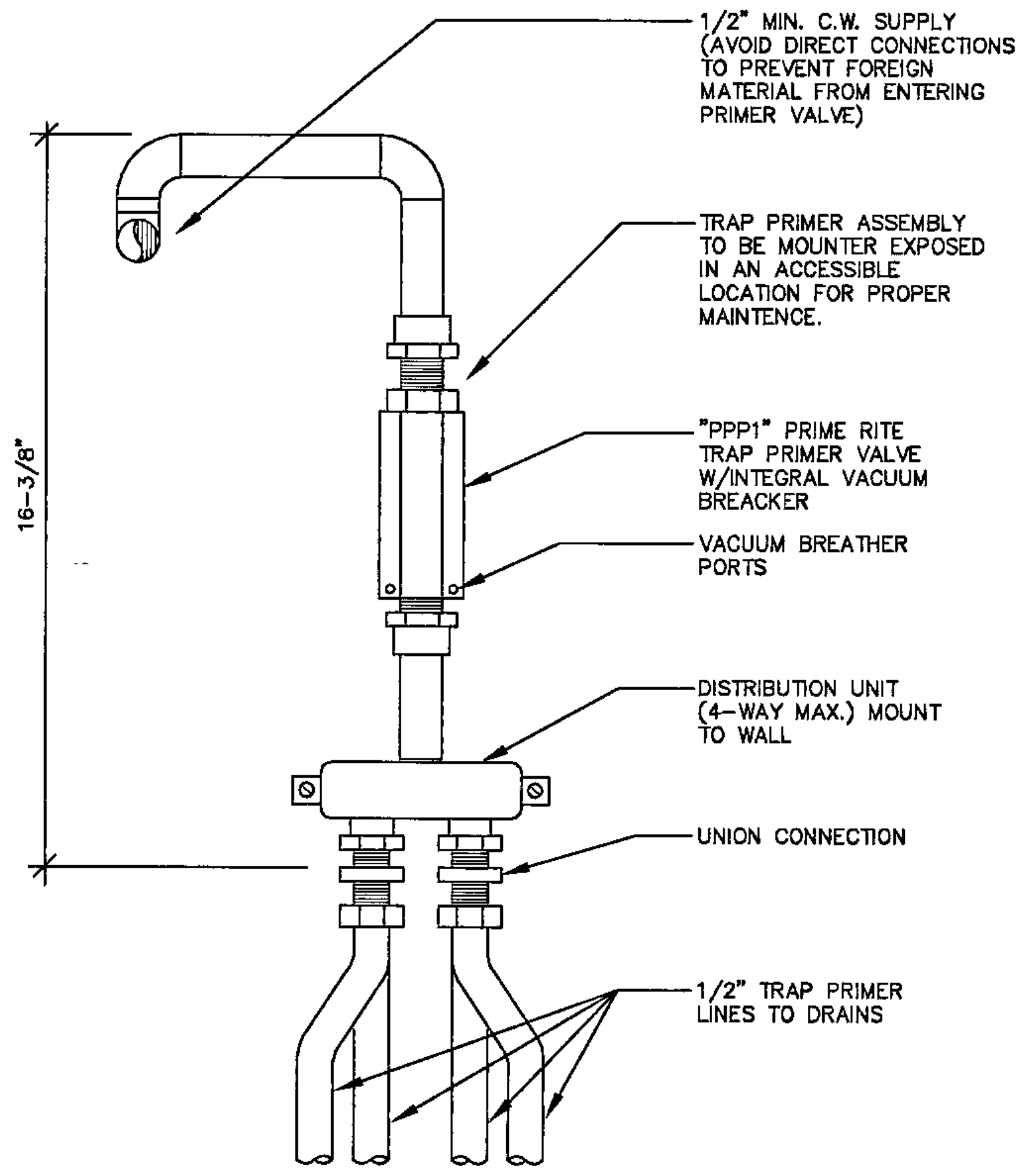
PLUMBING DETAILS

P3.2

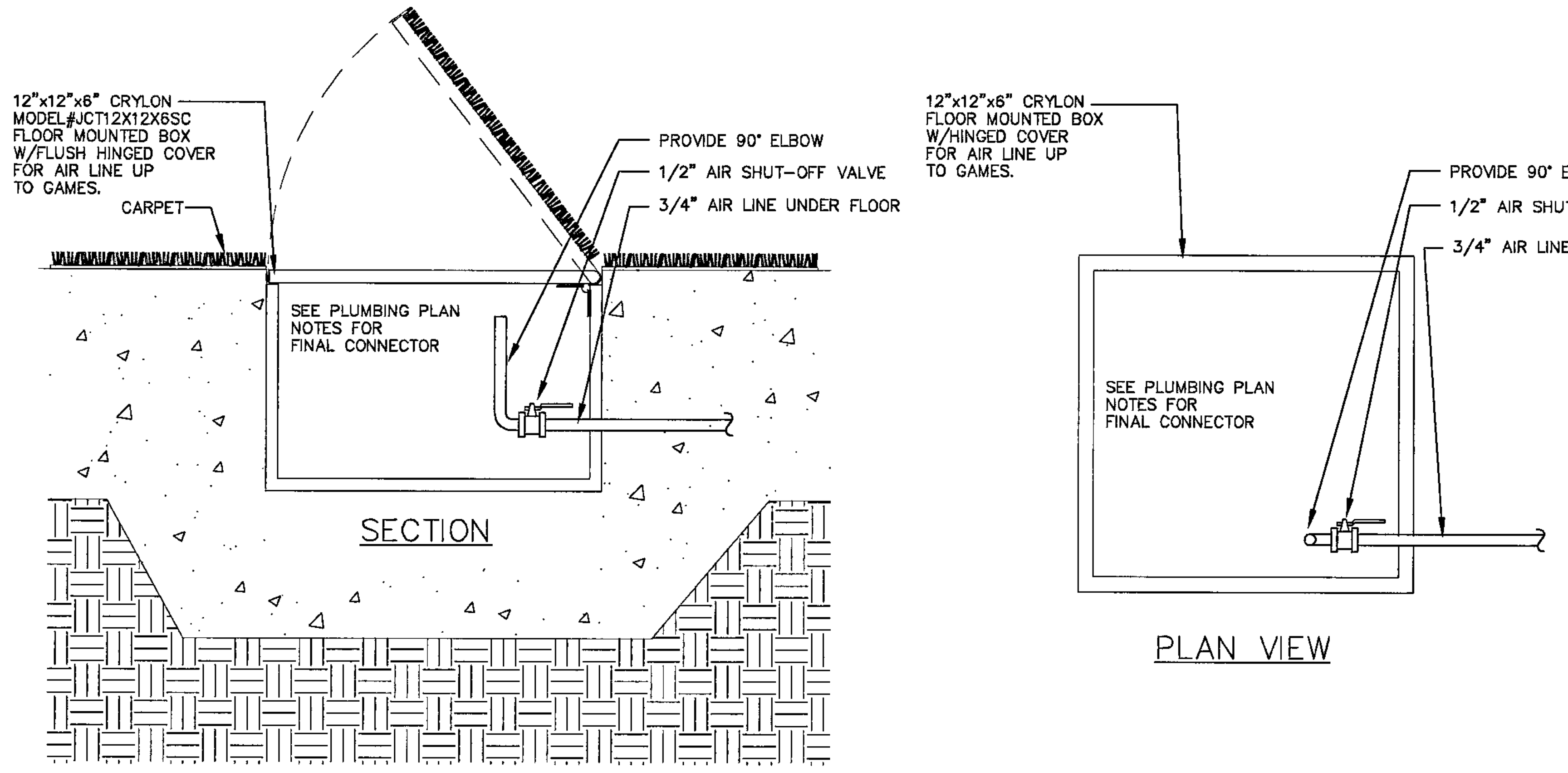

2" RELIEF VENT
TWO-WAY C.O.
5'-0"±
8'-0"±
4" LOCAL VENT
TWO-WAY C.O.
TRAFFIC RATED MANHOLE FRAMES & COVERS (TYP. OF 2)
2" RELIEF VENT
TWO-WAY C.O.
4" GREASE
PROVIDE EXTENSION COLLARS AS REQ'D.
20"±
DEPTH PER INSTALLATION REQUIREMENTS
TWO-WAY C.O.
AIR GAP
OUTLET
4" LOCAL VENT
4" SANITARY SEWER
INLET
WATER LINE
6'-6"±
6"±
BAFFLE
PRECAST CONCRETE GREASE TRAP.
ACCEPTABLE MANUFACTURES: DURA-CRETE PRE-CAST AS DETAILED BY LOCAL SEWER AUTHORITY.

GREASE INTERCEPTOR INSTALLED BY SITE CONTRACTOR.
P.C. TO COORDINATE VENTING REQUIREMENTS AND GW PIPE
INVERT WITH ACTUAL GREASE INTERCEPTOR LOCATION AND DEPTH.

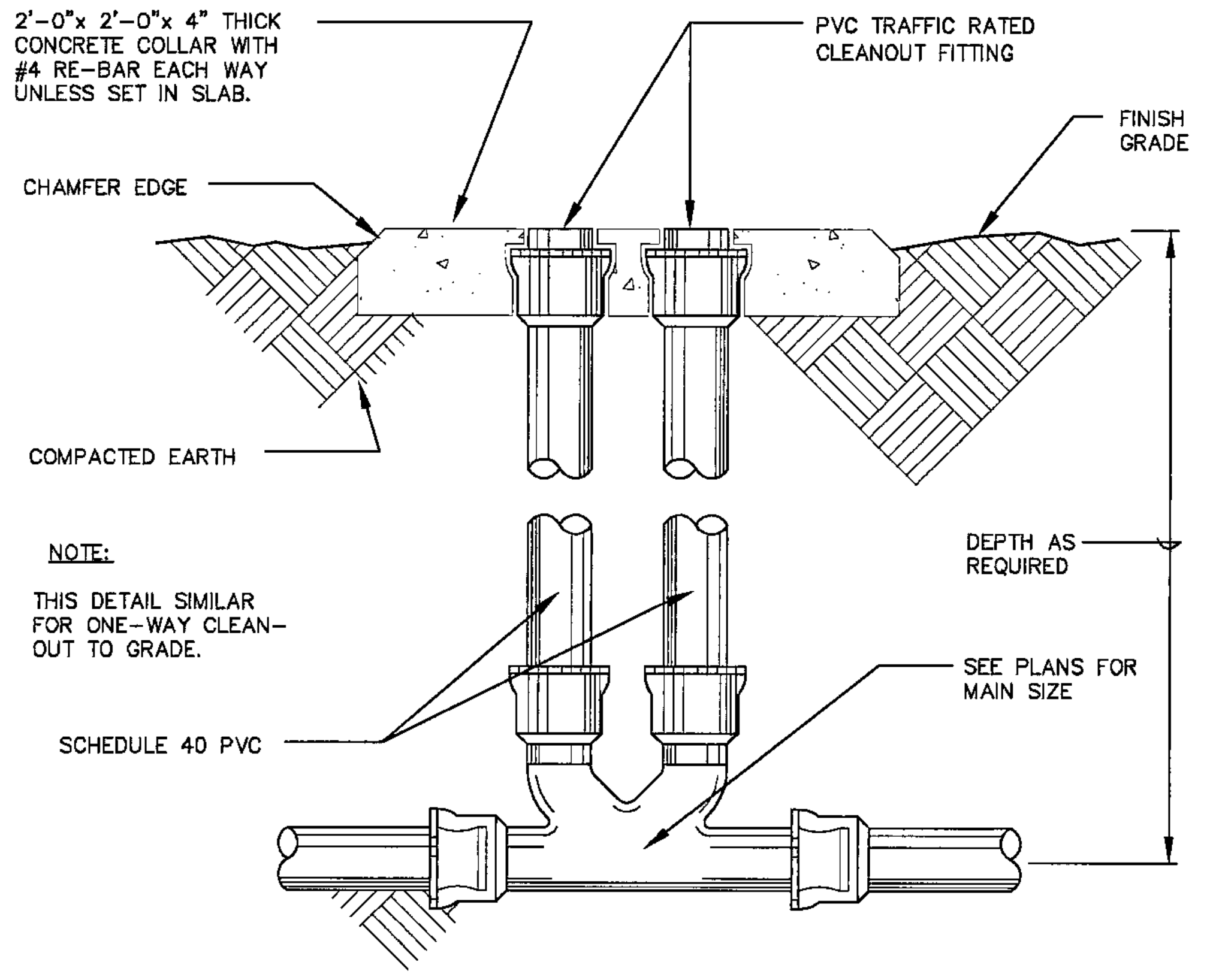
01 GREASE INTERCEPTOR DETAIL
SCALE:NONE


1/2" MIN. C.W. SUPPLY (AVOID DIRECT CONNECTIONS TO PREVENT FOREIGN MATERIAL FROM ENTERING PRIMER VALVE)
TRAP PRIMER ASSEMBLY TO BE MOUNTER EXPOSED IN AN ACCESSIBLE LOCATION FOR PROPER MAINTENCE.
"PPP1" PRIME RITE TRAP PRIMER VALVE W/INTEGRAL VACUUM BREACKER
VACUUM BREATHER PORTS
16-3/8"
DISTRIBUTION UNIT (4-WAY MAX.) MOUNT TO WALL
UNION CONNECTION
1/2" TRAP PRIMER LINES TO DRAINS

02 TRAP PRIMER "TP-1" DETAIL
SCALE:NONE


12"x12"x6" CRYLON MODEL#JCT12X12X6SC FLOOR MOUNTED BOX W/FLUSH HINGED COVER FOR AIR LINE UP TO GAMES.
CARPET
PROVIDE 90° ELBOW
1/2" AIR SHUT-OFF VALVE
3/4" AIR LINE UNDER FLOOR
SEE PLUMBING PLAN NOTES FOR FINAL CONNECTOR
SECTION
12"x12"x6" CRYLON FLOOR MOUNTED BOX W/HINGED COVER FOR AIR LINE UP TO GAMES.
PROVIDE 90° ELBOW
1/2" AIR SHUT-OFF VALVE
3/4" AIR LINE UNDER FLOOR
SEE PLUMBING PLAN NOTES FOR FINAL CONNECTOR
PLAN VIEW

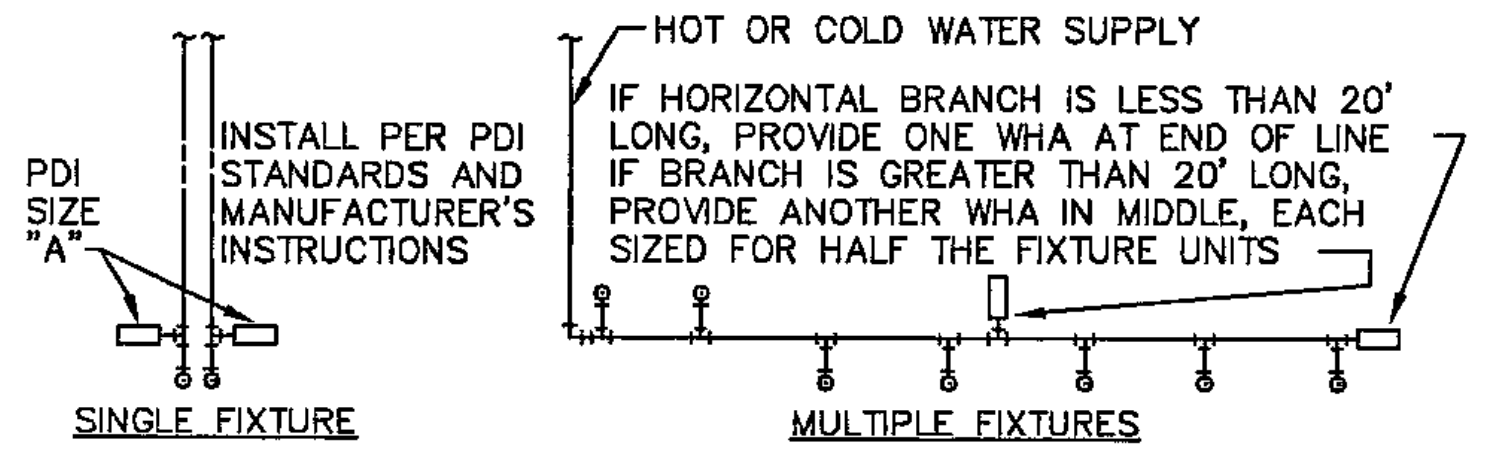
03 FLOOR BOX CONNECTION
SCALE:NONE


2'-0"x 2'-0"x 4" THICK CONCRETE COLLAR WITH #4 RE-BAR EACH WAY UNLESS SET IN SLAB.
PVC TRAFFIC RATED CLEANOUT FITTING
FINISH GRADE
CHAMFER EDGE
COMPACTED EARTH
DEPTH AS REQUIRED
SEE PLANS FOR MAIN SIZE
SCHEDULE 40 PVC

NOTE:

THIS DETAIL SIMILAR FOR ONE-WAY CLEAN-OUT TO GRADE.

04 TWO-WAY CLEANOUT DETAIL
SCALE:NONE

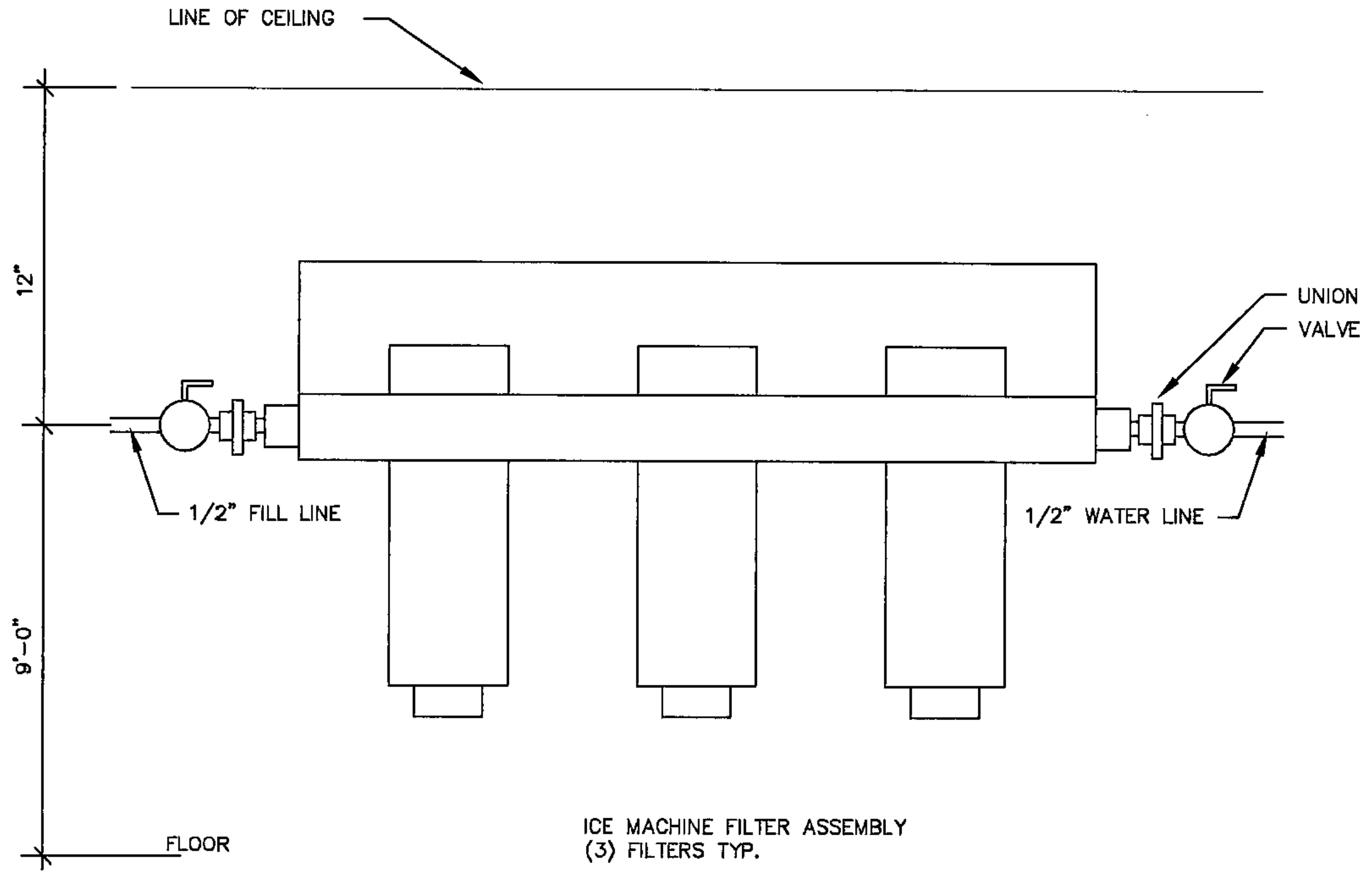

PDI SIZE "A"
INSTALL PER PDI STANDARDS AND MANUFACTURER'S INSTRUCTIONS
HOT OR COLD WATER SUPPLY
IF HORIZONTAL BRANCH IS LESS THAN 20' LONG, PROVIDE ONE WHA AT END OF LINE IF BRANCH IS GREATER THAN 20' LONG, PROVIDE ANOTHER WHA IN MIDDLE, EACH SIZED FOR HALF THE FIXTURE UNITS
SINGLE FIXTURE
MULTIPLE FIXTURES

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	

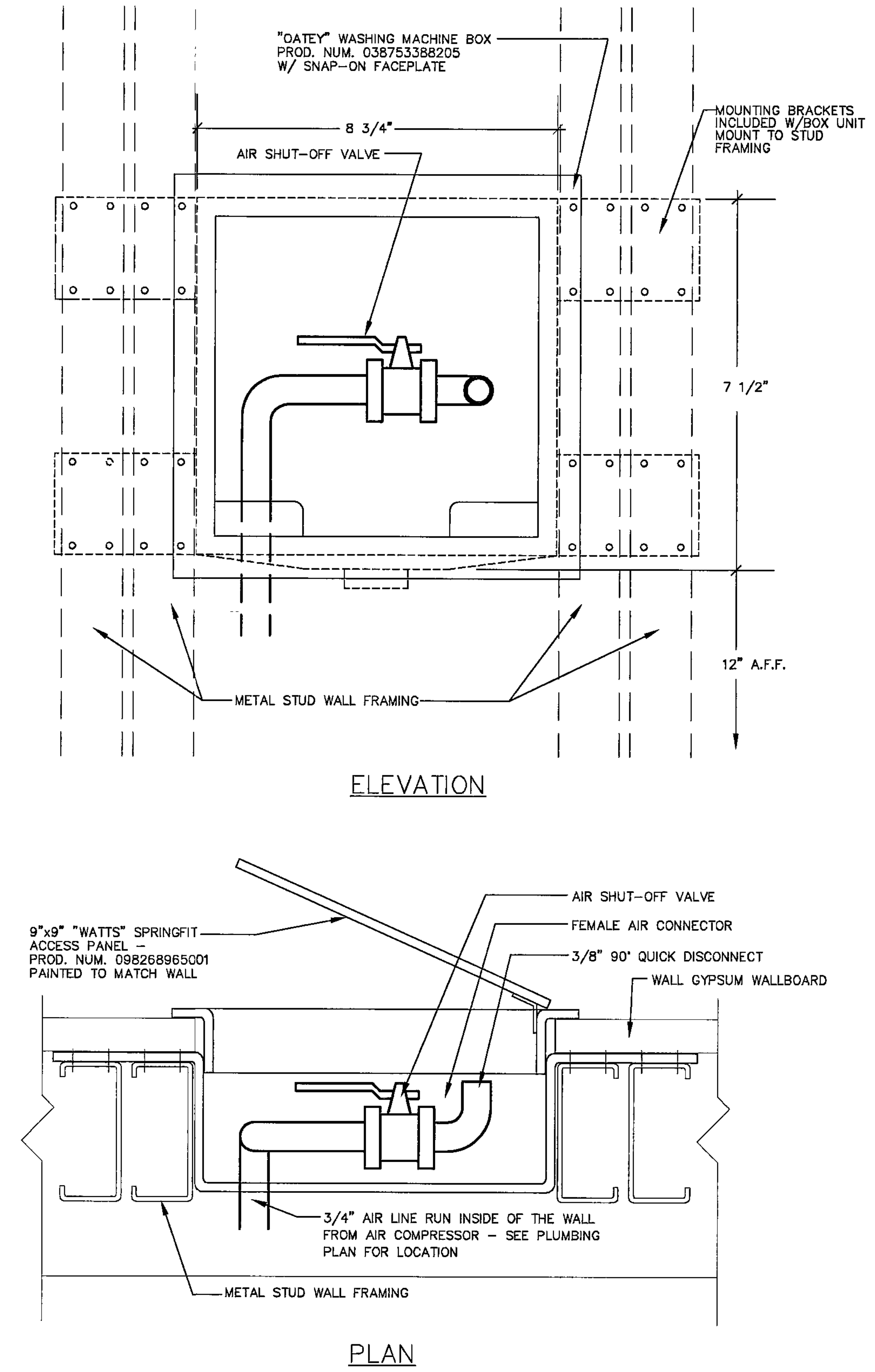
FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

05 HAMMER ARRESTER DETAIL
SCALE:NONE

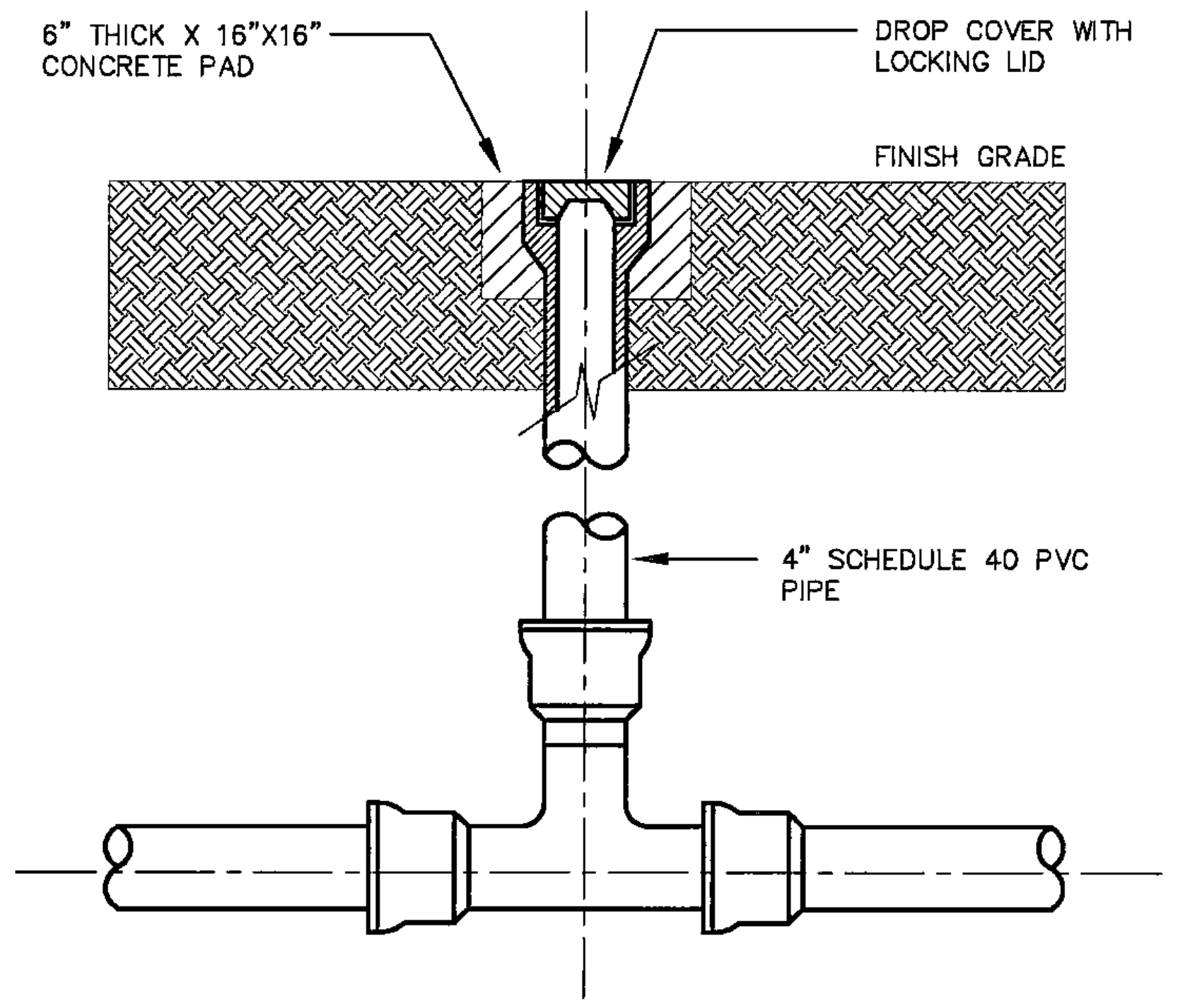


06 ICE MACHINE FILTER ASSEMBLY
SCALE:NONE


"OATEY" WASHING MACHINE BOX PROD. NUM. 038753388205 W/ SNAP-ON FACEPLATE
8 3/4"
AIR SHUT-OFF VALVE
MOUNTING BRACKETS INCLUDED W/BOX UNIT MOUNT TO STUD FRAMING
7 1/2"
12" A.F.F.
METAL STUD WALL FRAMING
ELEVATION
AIR SHUT-OFF VALVE
FEMALE AIR CONNECTOR
3/8" 90° QUICK DISCONNECT
WALL GYPSUM WALLBOARD
9"x9" "WATTS" SPRINGFIT ACCESS PANEL - PROD. NUM. 098268965001 PAINTED TO MATCH WALL
3/4" AIR LINE RUN INSIDE OF THE WALL FROM AIR COMPRESSOR - SEE PLUMBING PLAN FOR LOCATION
METAL STUD WALL FRAMING
PLAN

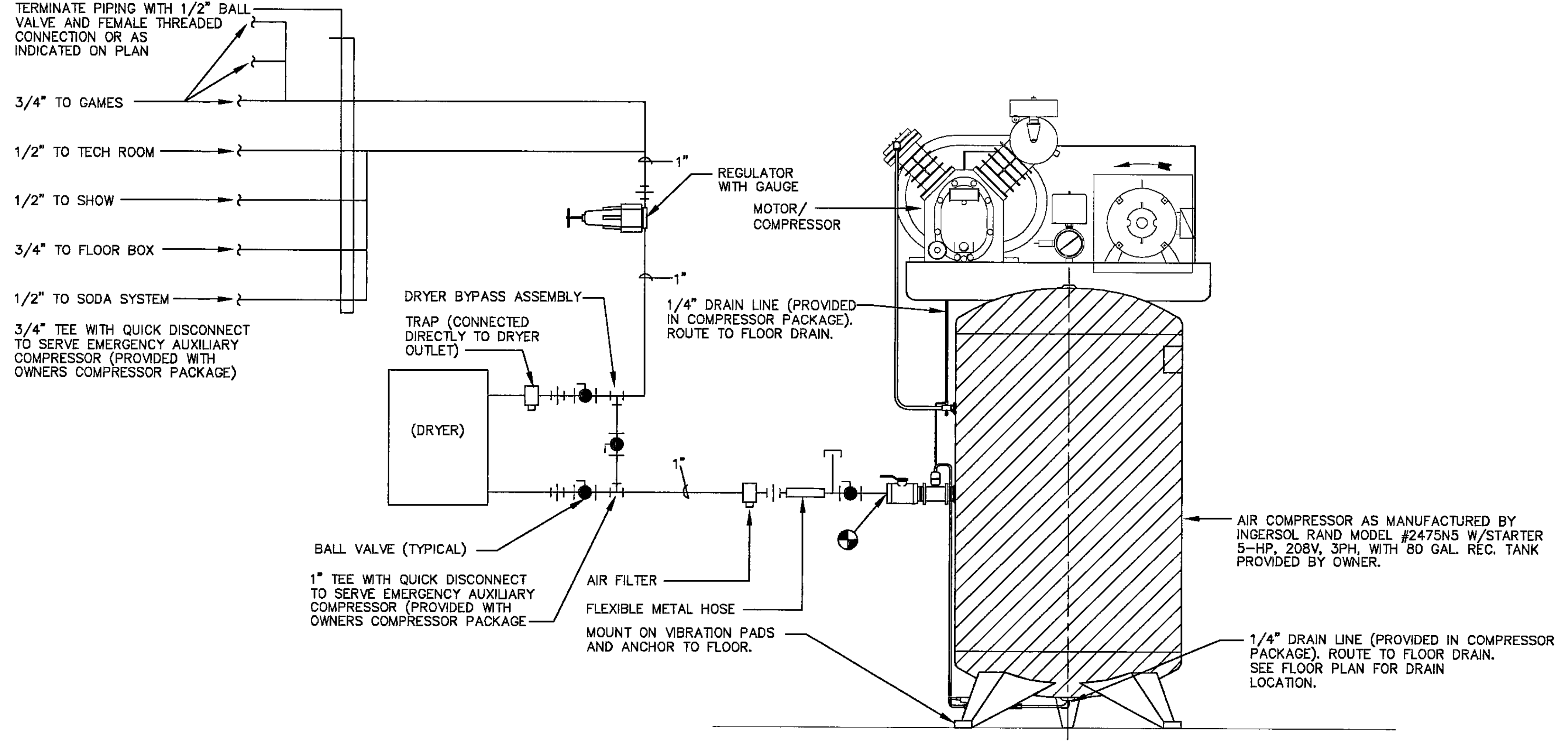
NOTES:
1. VALVE TO BE MOUNTED @ 12" A.F.F.
2. SEE PLUMBING PLANS NOTES FOR FINAL CONNECTION.
3. INSTALL VALVE WITHIN RECESSED WALL BOX.

08 WALL AIR VALVE CONNECTION BOX DETAIL
SCALE:NONE



GREASE INTERCEPTOR INSTALLED BY SITE CONTRACTOR.
P.C. TO COORDINATE TEST WELL REQUIREMENTS WITH LOCAL
SEWER AUTHORITY.

07 TEST WELL DETAIL
SCALE:NONE


TERMINATE PIPING WITH 1/2" BALL VALVE AND FEMALE THREADED CONNECTION OR AS INDICATED ON PLAN
3/4" TO GAMES
1/2" TO TECH ROOM
1/2" TO SHOW
3/4" TO FLOOR BOX
1/2" TO SODA SYSTEM
3/4" TEE WITH QUICK DISCONNECT TO SERVE EMERGENCY AUXILIARY COMPRESSOR (PROVIDED WITH OWNERS COMPRESSOR PACKAGE)
1"
REGULATOR WITH GAUGE
MOTOR/ COMPRESSOR
1"
DRYER BYPASS ASSEMBLY
TRAP (CONNECTED DIRECTLY TO DRYER OUTLET)
1/4" DRAIN LINE (PROVIDED IN COMPRESSOR PACKAGE). ROUTE TO FLOOR DRAIN.
(DRYER)
1"
BALL VALVE (TYPICAL)
1" TEE WITH QUICK DISCONNECT TO SERVE EMERGENCY AUXILIARY COMPRESSOR (PROVIDED WITH OWNERS COMPRESSOR PACKAGE
AIR FILTER
FLEXIBLE METAL HOSE
MOUNT ON VIBRATION PADS AND ANCHOR TO FLOOR.
AIR COMPRESSOR AS MANUFACTURED BY INGERSOL RAND MODEL #2475N5 W/STARTER 5-HP, 208V, 3PH, WITH 80 GAL. REC. TANK PROVIDED BY OWNER.
1/4" DRAIN LINE (PROVIDED IN COMPRESSOR PACKAGE). ROUTE TO FLOOR DRAIN. SEE FLOOR PLAN FOR DRAIN LOCATION.

09 AIR COMPRESSOR PIPING DETAIL
SCALE:NONE

REGISTRATON SEAL

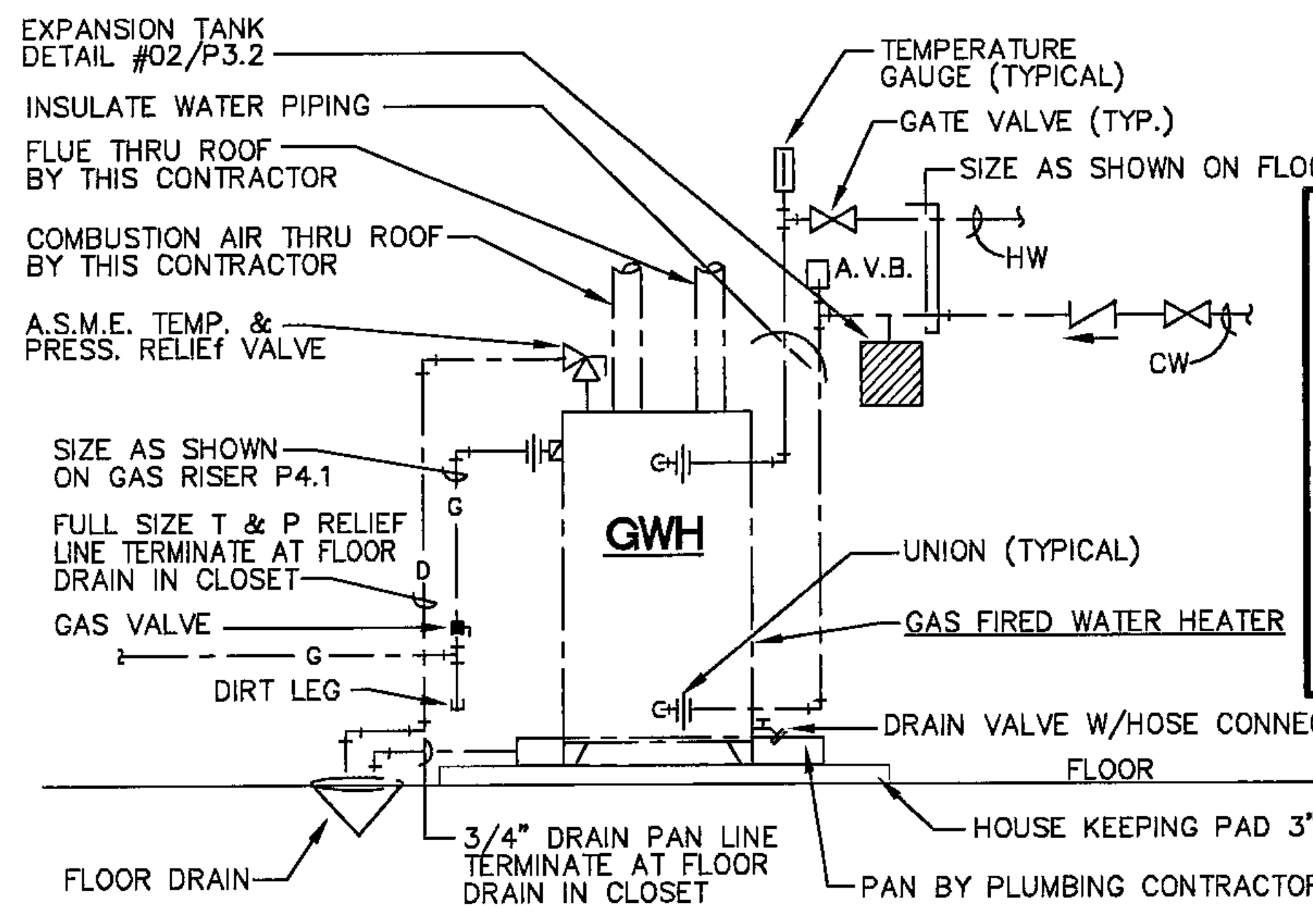
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE:
04/07/10
PLUMBING DETAILS

P3.3


EXPANSION TANK DETAIL #02/P3.2
INSULATE WATER PIPING
FLUE THRU ROOF BY THIS CONTRACTOR
COMBUSTION AIR THRU ROOF BY THIS CONTRACTOR
A.S.M.E. TEMP. & PRESS. RELIEf VALVE
SIZE AS SHOWN ON GAS RISER P4.1
FULL SIZE T & P RELIEF LINE TERMINATE AT FLOOR DRAIN IN CLOSET
GAS VALVE
G
D
DIRT LEG
FLOOR DRAIN
3/4" DRAIN PAN LINE TERMINATE AT FLOOR DRAIN IN CLOSET
TEMPERATURE GAUGE (TYPICAL)
GATE VALVE (TYP.)
SIZE AS SHOWN ON FLOOR PLAN
A.V.B.
HW
CW
GWH
UNION (TYPICAL)
GAS FIRED WATER HEATER
DRAIN VALVE W/HOSE CONNECTION
FLOOR
HOUSE KEEPING PAD 3" MIN.
PAN BY PLUMBING CONTRACTOR

NOTES:

1. PROVIDE AND INSTALL CONDENSATE DRAIN PIPING FROM WATER HEATER PER MANUFACTURES RECOMMENDATIONS.

2. PROVIDE AND INSTALL EXHAUST AND COMBUSTION AIR PIPING AS REQUIRED PER MANUFACTURES SPECIFICATIONS.

3. CONTACT MANUFACTURER FOR START UP AND TO CONFIRM WATER HEATER HAS BEEN PROPERLY INSTALLED.

(01) GAS WATER HEATER

SCALE:NONE

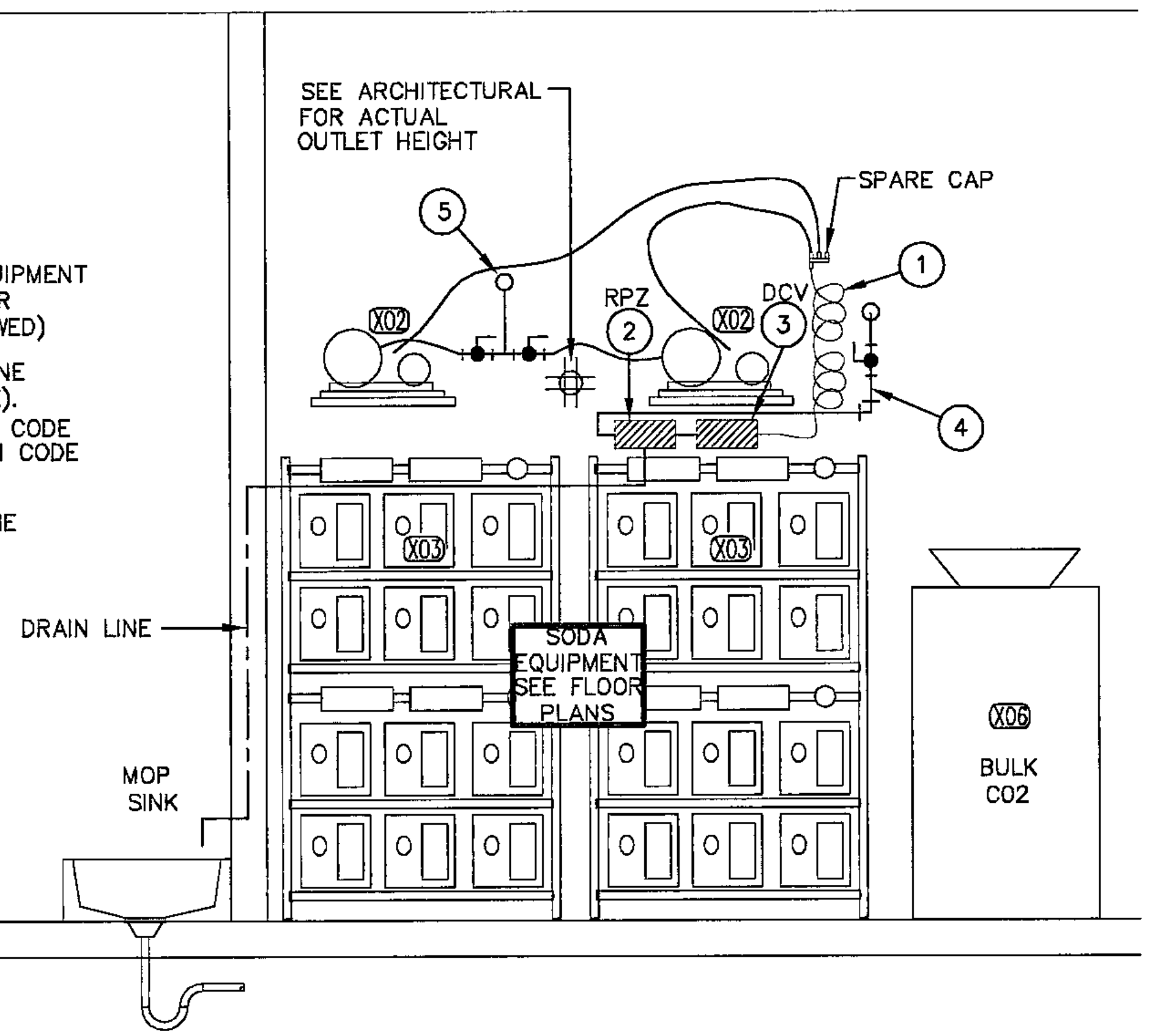
① FLEXIBLE PLASTIC TUBING CONNECTION BETWEEN EQUIPMENT AND BACKFLOW PREVENTER (NO COPPER PIPING ALLOWED)

② RPZ VALVE WITH DRAIN LINE (WHEN REQUIRED BY CODE). TERMINATE DRAIN LINE AT CODE APPROVED RECEPTOR WITH CODE REQUIRED AIR-GAP

③ DUAL CHECK VALVE IN LINE PRIOR TO CONNECTING TO SODA EQUIPMENT.

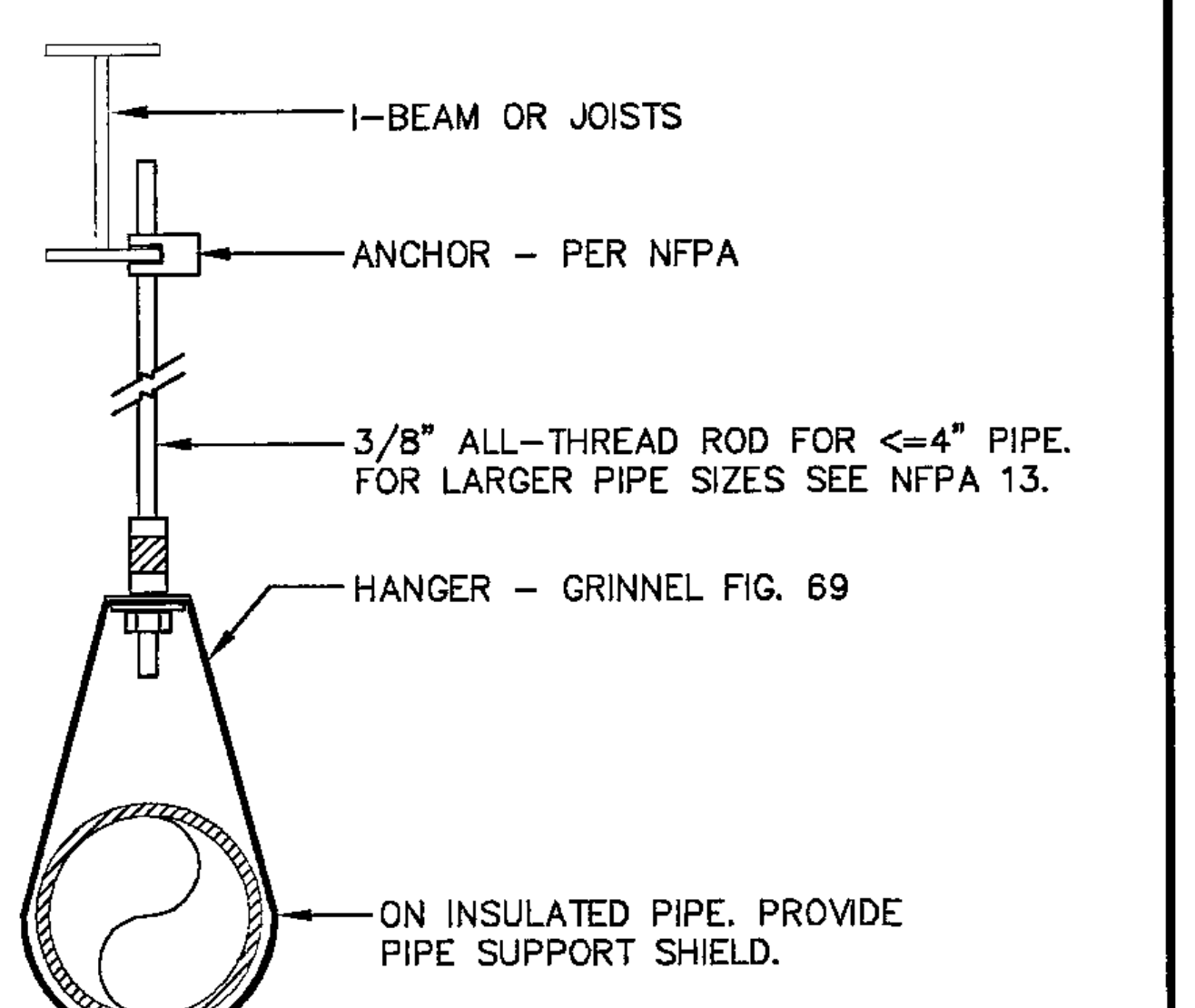
④ 1/2" CW SUPPLY TO SODA EQUIPMENT.

⑤ 1/2" COMPRESSED AIR LINE TO PUMPS


SEE ARCHITECTURAL FOR ACTUAL OUTLET HEIGHT
SPARE CAP
5
1
RPZ
2
DCV
3
4
X02
X02
X03
X03
DRAIN LINE
SODA EQUIPMENT SEE FLOOR PLANS
X06
BULK CO2
MOP SINK

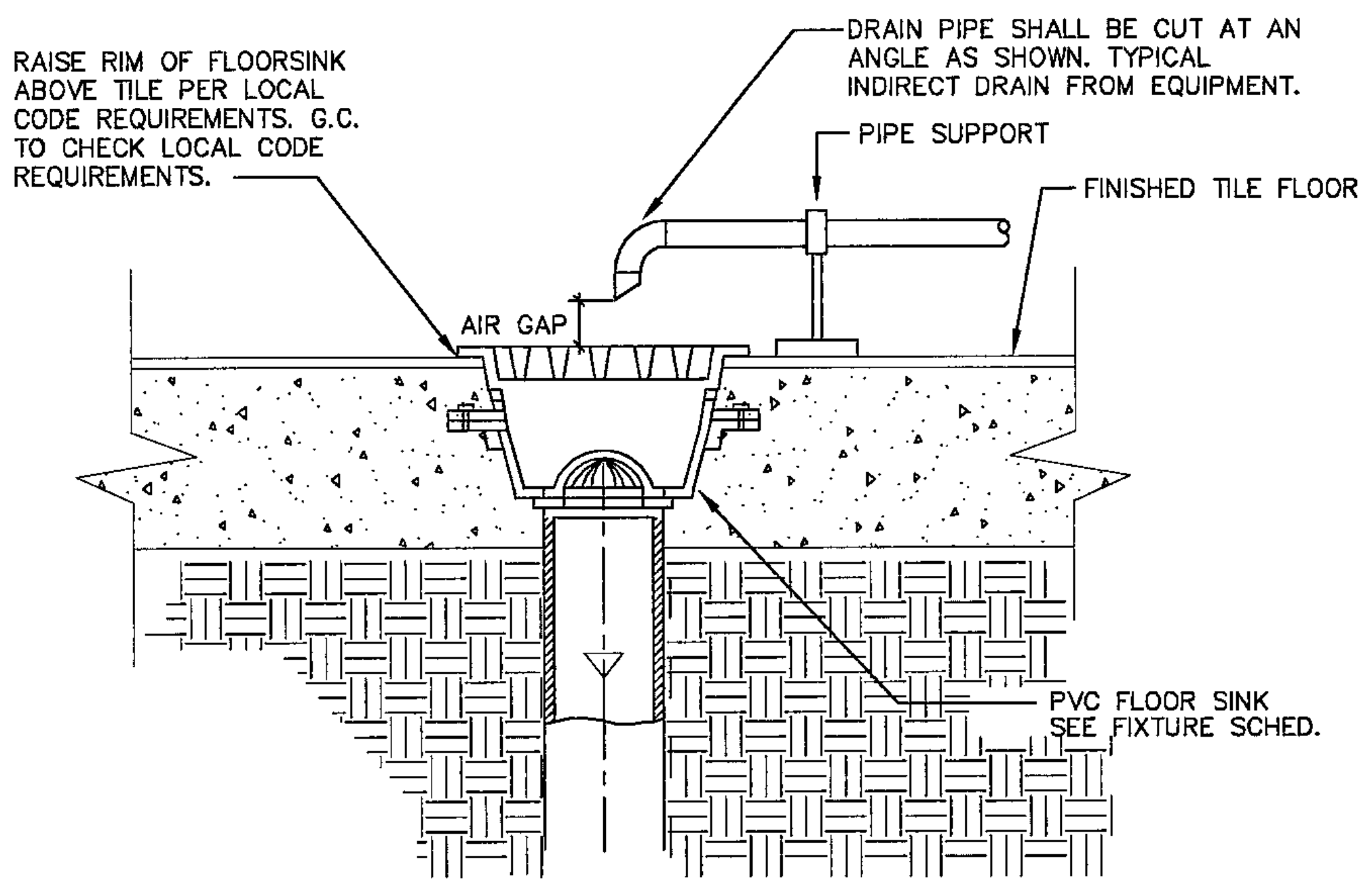
(02) SODA SYSTEM B.F.P.

SCALE:NONE


I-BEAM OR JOISTS
ANCHOR - PER NFPA
3/8" ALL-THREAD ROD FOR <=4" PIPE. FOR LARGER PIPE SIZES SEE NFPA 13.
HANGER - GRINNEL FIG. 69
ON INSULATED PIPE. PROVIDE PIPE SUPPORT SHIELD.

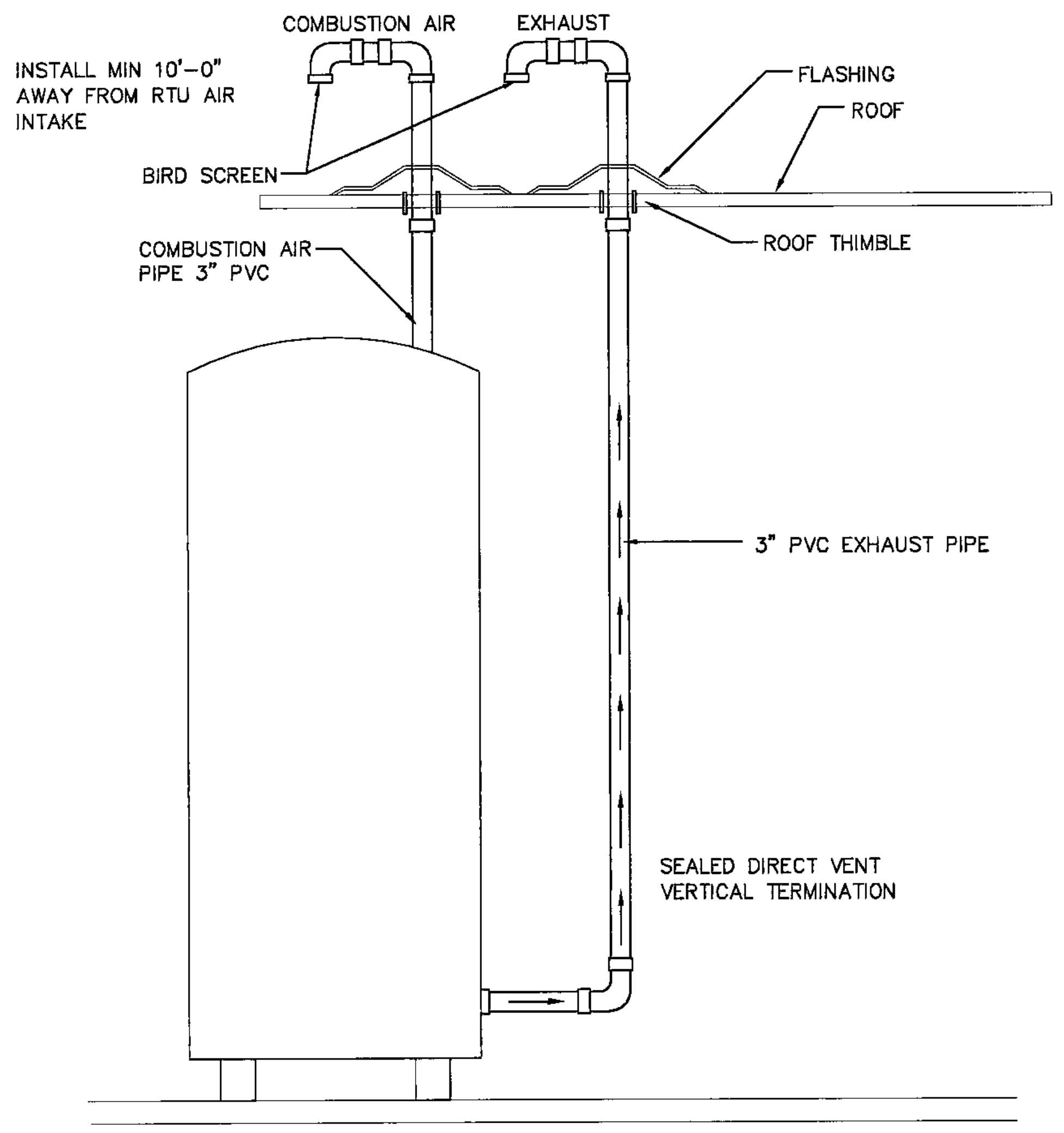
(03) PIPE HANGER DETAIL

SCALE:NONE


RAISE RIM OF FLOORSINK ABOVE TILE PER LOCAL CODE REQUIREMENTS. G.C. TO CHECK LOCAL CODE REQUIREMENTS.
DRAIN PIPE SHALL BE CUT AT AN ANGLE AS SHOWN. TYPICAL INDIRECT DRAIN FROM EQUIPMENT.
PIPE SUPPORT
FINISHED TILE FLOOR
AIR GAP
PVC FLOOR SINK SEE FIXTURE SCHED.

(04) FLOOR SINK DETAIL

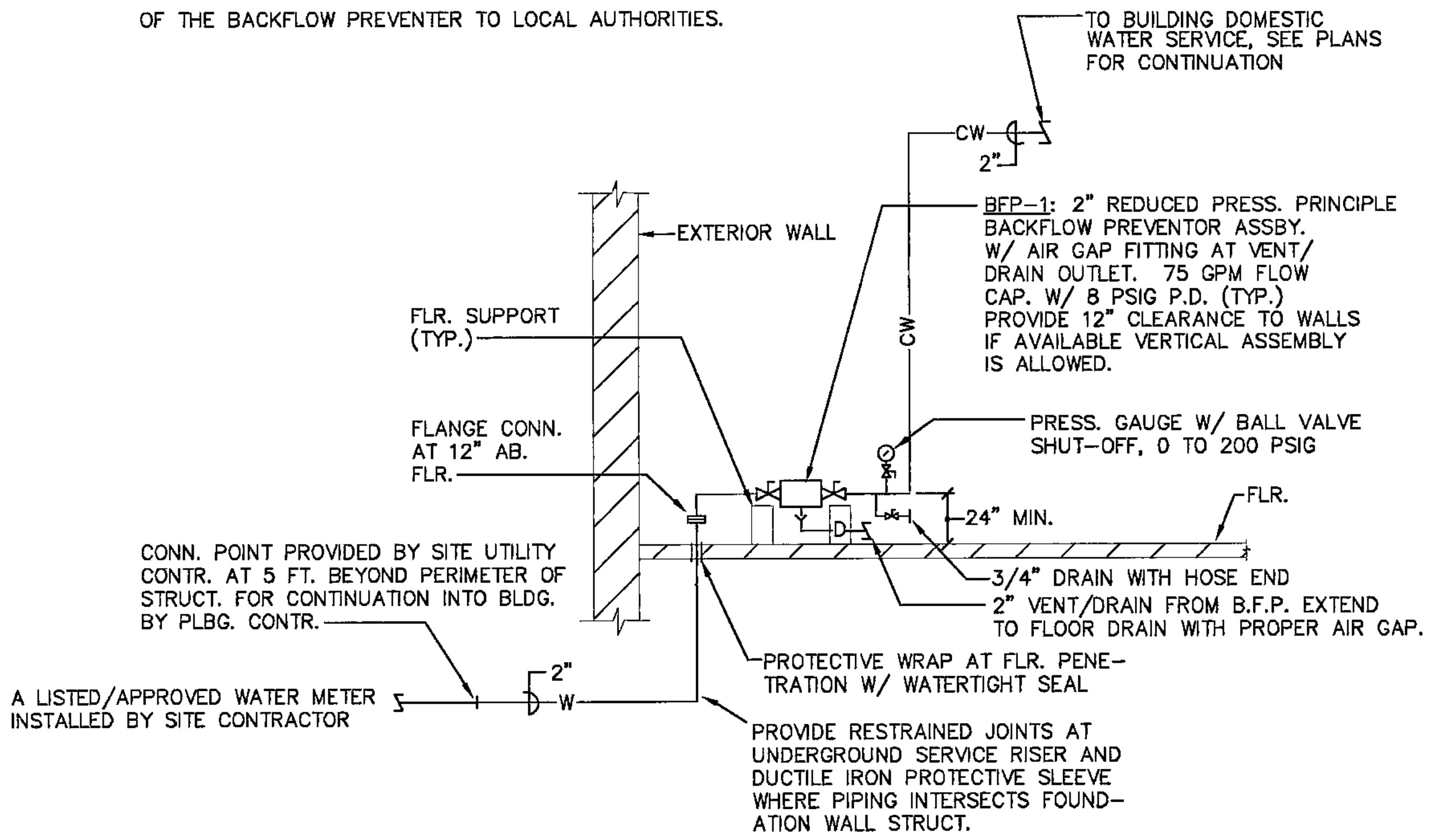
SCALE:NONE


COMBUSTION AIR
EXHAUST
INSTALL MIN 10'-0" AWAY FROM RTU AIR INTAKE
FLASHING
ROOF
BIRD SCREEN
ROOF THIMBLE
COMBUSTION AIR PIPE 3" PVC
3" PVC EXHAUST PIPE
SEALED DIRECT VENT VERTICAL TERMINATION

(05) VENT COMBUSTION AIR DETAIL

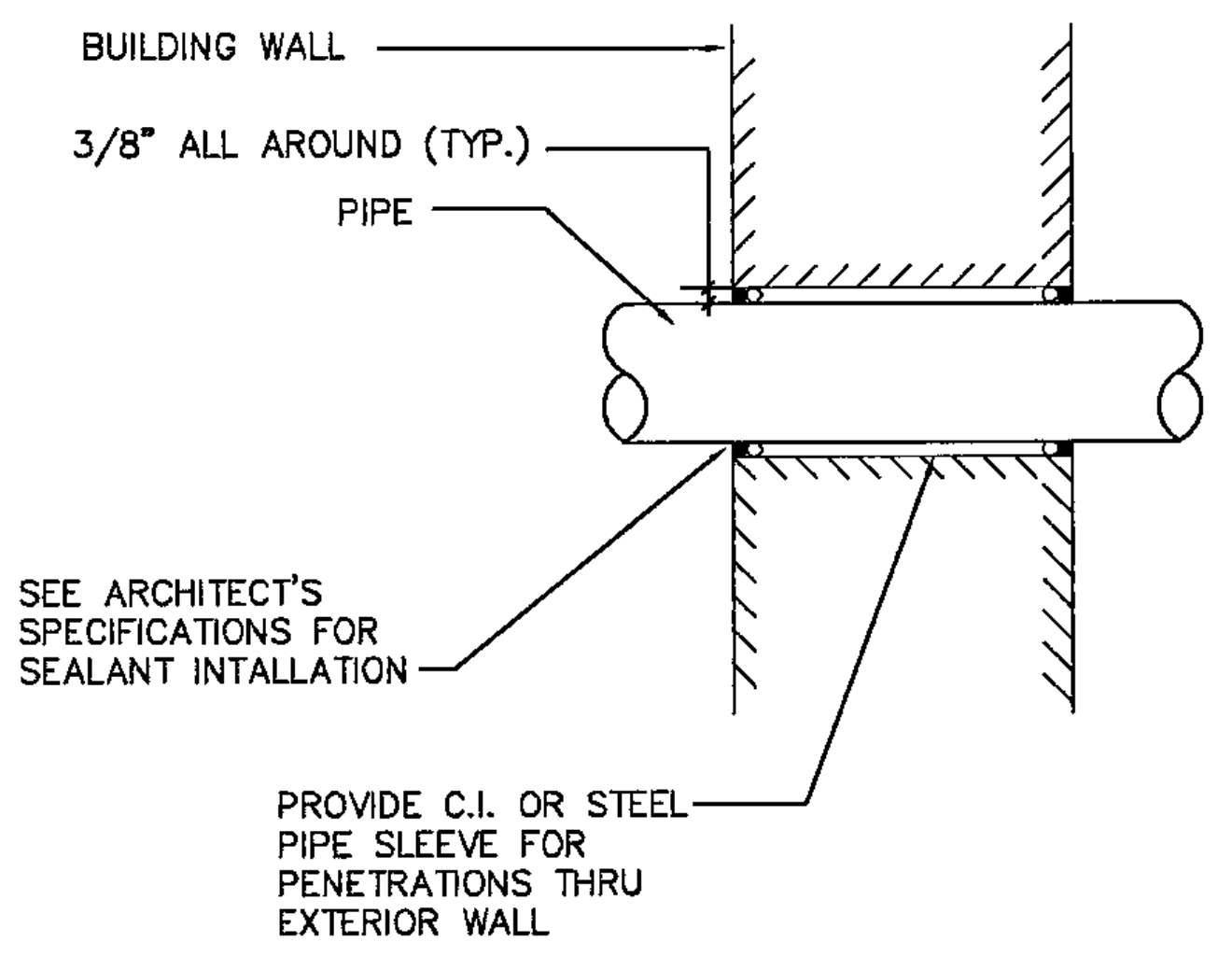
SCALE:NONE

DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. INSTALL ITEMS FURNISHED BY WATER COMPANY, PAY ANY FEES REQUIRED BY WATER COMPANY, FURNISH AND INSTALL ITEMS NOT PROVIDED BY THE WATER COMPANY. PROVIDE BACKFLOW PREVENTER OF TYPE & MANUFACTURER APPROVED BY LOCAL AUTHORITIES. PROVIDE PRESSURE REDUCING VALVE ONLY IF PRESSURE EXCEEDS 80 PSI – VERIFY. STRAINER AND REDUCING VALVE MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE IT. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION OF TESTING OF THE BACKFLOW PREVENTER TO LOCAL AUTHORITIES.


TO BUILDING DOMESTIC WATER SERVICE, SEE PLANS FOR CONTINUATION
CW
2"
EXTERIOR WALL
BFP-1: 2" REDUCED PRESS. PRINCIPLE BACKFLOW PREVENTOR ASSBY. W/ AIR GAP FITTING AT VENT/ DRAIN OUTLET. 75 GPM FLOW CAP. W/ 8 PSIG P.D. (TYP.) PROVIDE 12" CLEARANCE TO WALLS IF AVAILABLE VERTICAL ASSEMBLY IS ALLOWED.
FLR. SUPPORT (TYP.)
CW
PRESS. GAUGE W/ BALL VALVE SHUT-OFF, 0 TO 200 PSIG
FLANGE CONN. AT 12" AB. FLR.
24" MIN.
FLR.
D
3/4" DRAIN WITH HOSE END
2" VENT/DRAIN FROM B.F.P. EXTEND TO FLOOR DRAIN WITH PROPER AIR GAP.
CONN. POINT PROVIDED BY SITE UTILITY CONTR. AT 5 FT. BEYOND PERIMETER OF STRUCT. FOR CONTINUATION INTO BLDG. BY PLBG. CONTR.
A LISTED/APPROVED WATER METER INSTALLED BY SITE CONTRACTOR
2"
W
PROTECTIVE WRAP AT FLR. PENETRATION W/ WATERTIGHT SEAL
PROVIDE RESTRAINED JOINTS AT UNDERGROUND SERVICE RISER AND DUCTILE IRON PROTECTIVE SLEEVE WHERE PIPING INTERSECTS FOUNDATION WALL STRUCT.

(06) DOMESTIC WATER SERVICE DIAGRAM

SCALE:NONE


BUILDING WALL
3/8" ALL AROUND (TYP.)
PIPE
SEE ARCHITECT'S SPECIFICATIONS FOR SEALANT INTALLATION
PROVIDE C.I. OR STEEL PIPE SLEEVE FOR PENETRATIONS THRU EXTERIOR WALL

(07) PIPE SLEEVE DETAIL

SCALE:NONE

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE
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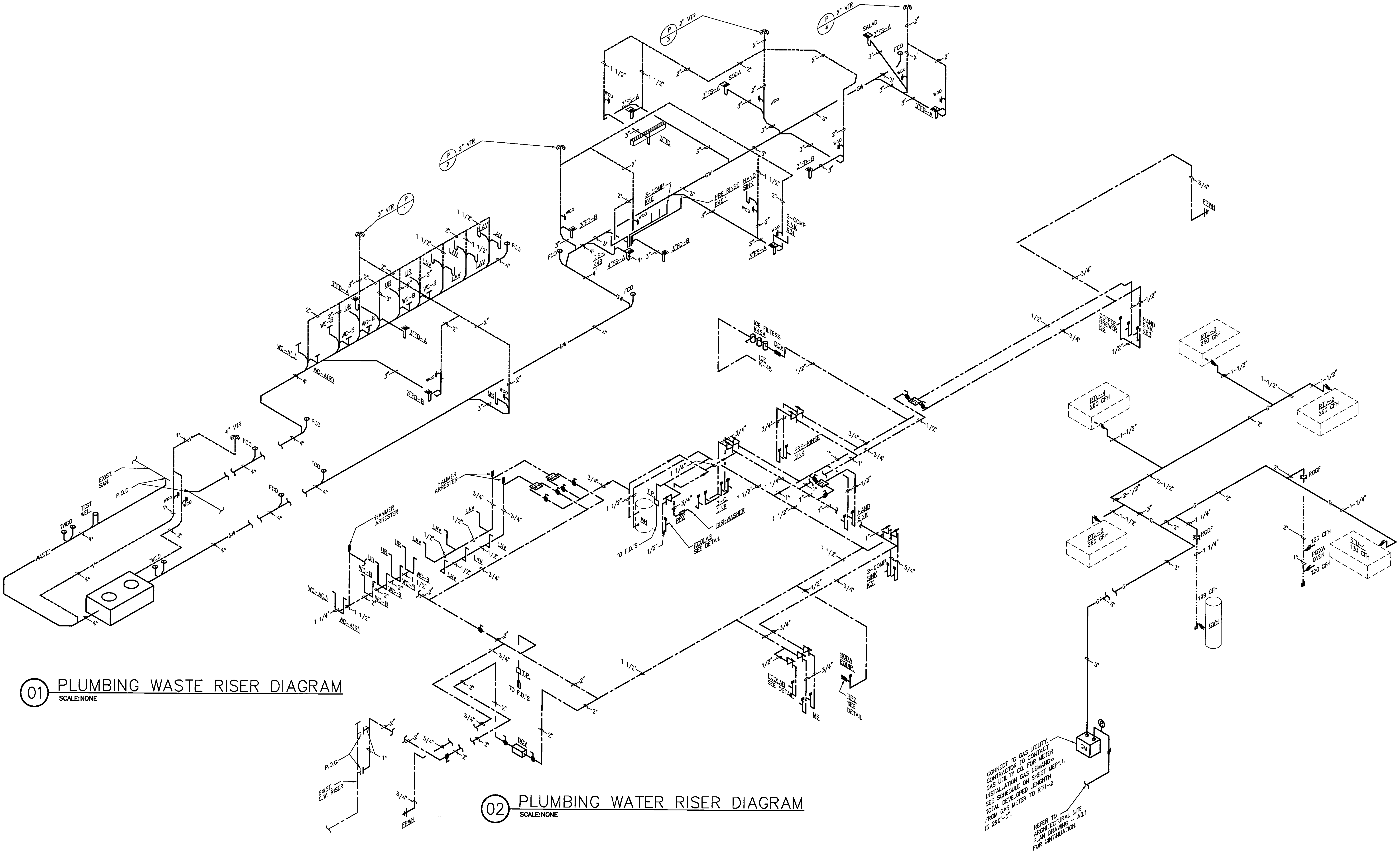
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE:
04/07/10
WATER DETAILS

P3.4



CONNECT TO GAS UTILITY. CONTRACTOR TO CONTACT GAS UTILITY CO. FOR METER INSTALLATION GAS DEMAND= SEE SCHEDULE ON SHEET MEP1.1. TOTAL DEVELOPED LENGHTH FROM GAS METER TO RTU-2 IS 290'-0".

REFER TO ARCHITECTURAL SITE PLAN DRAWING – A0.1 FOR CINTINUATION.

01 PLUMBING WASTE RISER DIAGRAM
SCALE:NONE

02 PLUMBING WATER RISER DIAGRAM
SCALE:NONE

03 PLUMBING GAS RISER DIAGRAM
SCALE:NONE

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
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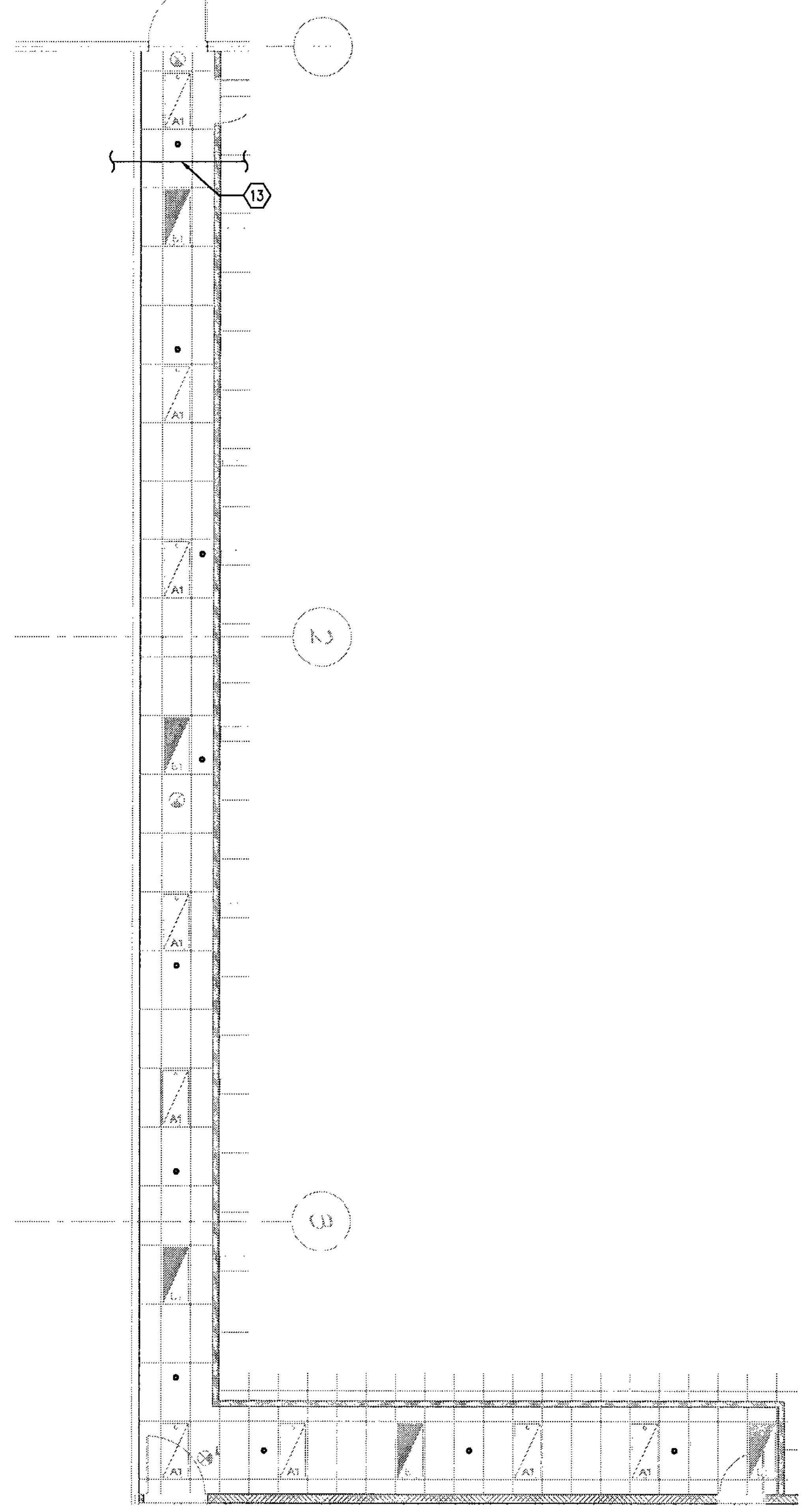
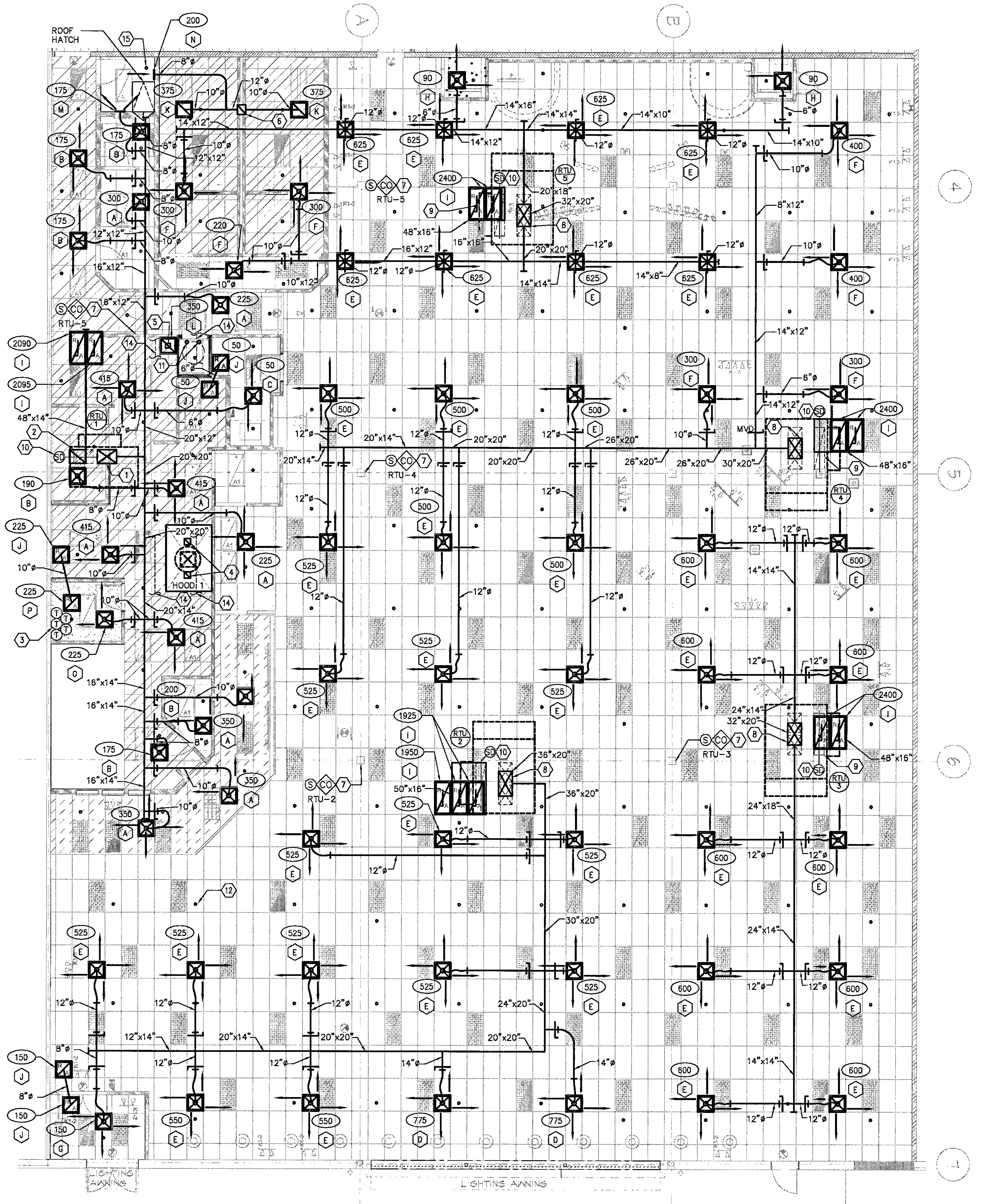
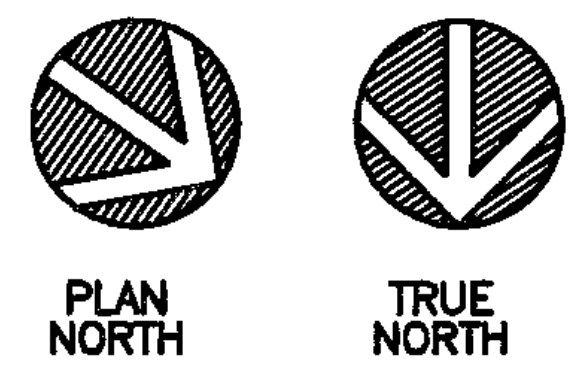
ISSUE DATE:
04/07/10

PLUMBING RISER DIAGRAMS

P4.1







01 MECHANICAL FLOOR PLAN

Scale: 1/8"=1'-0"

GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, PIPING OR EQUIPMENT.
2. ALL ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO REFRIGERANT LINES, ETC.
5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
7. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT.
8. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.
9. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHTING LAYOUTS AS REQUIRED.
11. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
12. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.
13. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOORS THAT ARE TO BE UNDERCUT.

⬡ CODED NOTES

⟨1⟩ 28x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU, TRANSITION IN VERTICAL TO UNIT OPENING SIZE.

⟨2⟩ 28x20 RETURN AIR DUCT UP THRU ROOF TO RTU, TRANSITION IN VERTICAL TO UNIT OPENING SIZE. REFER TO DETAIL 09/M1.3.

⟨3⟩ OWNER TO PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL THERMOSTAT WITH REMOTE SENSOR TO MATCH UNIT TO BE REMOTELY LOCATED IN MANAGER'S OFFICE AS SHOWN ON THIS SHEET. M.C. TO INSTALL THERMOSTAT AND SENSOR. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY. LABEL THERMOSTAT IN OFFICE FOR EACH APPROPRIATE ZONE.

⟨4⟩ PROVIDE PAIR OF PANTS EXHAUST CONNECTION FROM A TYPE II HOOD TO A COMMON 18"X18" RISER. REFER TO HOOD DETAILS ON SHEET M1.4 FOR MORE INFORMATION. EXTEND UP THROUGH ROOF TO EF-1. OFFSET AS REQUIRED TO MAINTAIN A 10'-0" MINIMUM CLEARANCE FROM RTU AIR INTAKE.

⟨5⟩ 10x10 GALVANIZED DISHWASHER EXHAUST DUCT UP THRU ROOF TO EF-2.

⟨6⟩ 14x12 TOILET EXHAUST DUCT UP THRU ROOF TO EF-3.

⟨7⟩ LOCATION OF TEMPERATURE SENSOR AND CO2 SENSORS CONNECTED TO THERMOSTAT IN MANAGER'S OFFICE. MOUNT 54" A.F.F.

⟨8⟩ 50x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU, TRANSITION IN VERTICAL TO UNIT OPENING SIZE.

⟨9⟩ 50x20 RETURN AIR DUCT UP THRU ROOF TO RTU, TRANSITION IN VERTICAL TO UNIT OPENING SIZE. REFER TO DETAIL 09/M1.3.

⟨10⟩ LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN RETURN AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SIGNAL FIRE ALARM PANEL AND SHUT DOWN RTU.

⟨11⟩ ROUTE 3" PVC FLUE VENT AND 3" PVC COMBUSTION AIR INTAKE UP THRU ROOF AND TERMINATE PER MANUFACTURER'S INSTRUCTION. REFER TO SHEET MEP1.1 FOR INFORMATION. ADJUST AS PER ACTUAL BEAM/JOIST LOCATIONS. VERIFY IN FIELD. SHALL BE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.

⟨12⟩ EXISTING SPRINKLER HEAD TO BE RELOCATED AS SHOWN DUE TO NEW CEILING GRID, LIGHTS, AND DIFFUSERS. EXTEND EXISTING SPRINKLER PIPING AS REQUIRED. (TYP.) FIELD VERIFY LOCATION.

⟨13⟩ FIRE SPRINKLER PIPING THRU TENANT'S SPACE. FIELD VERIFY LOCATION.

⟨14⟩ EXISTING 22K JOISTS AT 5'0" O.C. SHOWN FOR REFERENCE. FIELD VERIFY LOCATION.

⟨15⟩ PROVIDE NEW/RELOCATE UPRIGHT SPRINKLER HEAD FOR OPEN TO DECK STRUCTURE. EXTEND EXISTING SPRINKLER PIPING AS REQUIRED. FIELD VERIFY LOCATION.

BIDDING NOTES

1. KITCHEN HOODS AND HOOD EXHAUST FANS ARE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR. BID IS TO INSTALL THE ENTIRE HOOD SYSTEM.
2. REFER TO CAPTIVE AIRE DETAILS ON SHEET M1.4 FOR BIDDING INSTALLATION COORDINATION ONLY.
3. ALL HOOD DUCTWORK IS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR.

HOOD EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER NFPA 96, 2001 EDITION AND CITY OF FAYETTEVILLE BUILDING AND FIRE CODES.

REGISTRATON SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

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ISSUE DATE: 04/07/10

MECHANICAL FLOOR PLAN

M1.1

SUITE #2
–
3001 COLLEGE AVENUE
FAYETTEVILLE, AR 72709
14,853 SQUARE FEET

LOAD COMPONENT SUMMARY

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400 COOLING OA DB / WB 94.4 °F / 74.8 °F			HEATING DATA AT DES HTG HEATING OA DB / WB 6.0 °F / 4.0 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	235 ft²	7444	-	235 ft²	-	-
Wall Transmission	1656 ft²	8840	-	1656 ft²	28809	-
Roof Transmission	14853 ft²	75981	-	14853 ft²	65708	-
Window Transmission	235 ft²	2077	-	235 ft²	8591	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	12586 ft²	0	-	12586 ft²	4647	-
Partitions	891 ft²	2963	-	891 ft²	5049	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	20228 W	54468	-	0	0	-
Task Lighting	2400 W	7230	-	0	0	-
Electric Equipment	26925 W	83229	-	0	0	-
People	523	96478	132175	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	44929	7450	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	**-**	**383639**	**139625**	**-**	**112803**	**0**
Zone Conditioning	-	371893	139625	-	109045	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	23885 CFM	0	-	23885 CFM	0	-
Ventilation Load	11068 CFM	207816	149269	11230 CFM	738709	0
Supply Fan Load	23885 CFM	30986	-	23885 CFM	-30986	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	**-**	**610695**	**288894**	**-**	**816767**	**0**
Central Cooling Coil	-	610695	288900	-	0	0
Central Heating Coil	-	0	-	-	816767	-
>> Total Conditioning	**-**	**610695**	**288900**	**-**	**816767**	**0**
Key:	**Positive values are clg loads Negative values are htg loads**			**Positive values are htg loads Negative values are clg loads**		

WEATHER	SYSTEM	THERMOSTAT
LOCATION – FAYETTEVILLE, AR ELEVATION – 1,250 FT SUMMER DB – 95°F SUMMER WB – 75°F WINTER DB – 6°F	ROOFTOP UNITS SUPPLY AIR – 59°F 30,000 CFM START – 8:00 DURATION – 14 HRS	COOL (OCC.) – 75.0°F COOL (UNOCC.) – 85°F HEATING – 70.0°F

AIR BALANCE SCHEDULE

ZONE KITCHEN

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 1	5000	4185	815	----	+815
EF 1	----	----	----	1100	–1100
EF 2	----	----	----	350	–350
SUBTOTAL	5000	4185	815	1450	–635

ZONE DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 2	7000	5800	1200	----	+1200
SUBTOTAL	7000	5800	1200	950	+1200

ZONE SKYWALK GAMES DINING/DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 3	6000	4800	1200	----	+1200
SUBTOTAL	6000	4800	1200	----	+1200

ZONE STAGE DINING/SKYWALK GAMES DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 4	6000	4800	1200	----	+1200
SUBTOTAL	6000	4800	1200	----	+1200

ZONE STAGE DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 5	6000	4800	1200	----	+1200
EF 3	----	----	----	950	–950
SUBTOTAL	6000	4800	1200	950	+250
BUILDING TOTAL	30000	24385	5615	2400	+3215

NOTES:

1. A COMPLETE TEST AND AIR BALANCE SHALL BE PERFORMED ON ALL AIR DISTRIBUTION EQUIPMENT. THE TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT, FULLY CERTIFIED TAB AGENCY THAT SPECIALIZES IN THE TESTING AND BALANCING OF AIR AND HYDRONIC SYSTEMS. THE TAB AGENCY SHALL SUBMIT TO THE OWNER (6) COPIES OF A WRITTEN REPORT WITHIN 30 DAYS AFTER THE INSPECTION IS COMPLETE. LIST ALL COMPLAINTS AND MALFUNCTIONS ENCOUNTERED AND INDICATE STEPS TAKEN OR NEEDED TO BE TAKEN TO CORRECT.

OUTSIDE AIR CALCULATIONS

OUTSIDE AIR REQUIRED

ROOM USE	SQ. FT.	No. PEOPLE	CFM/PERSON	CFM REQ'D
KITCHEN/SUPPORT	2397*	10*	15	150
STAGE DINING	2267*	3*	20	4660
GAMES – SKYWALK DINING	5214	180*	25	4500
DINING	4483*	96*	20	1920
TOTAL	14,361*	519*	--	11230

*PER ASHRAE VARIABLE OCCUPANCY 50% FACTOR WITH CO2 SENSOR CONTROLS= 5600 CFM

OUTSIDE AIR PROVIDED

UNIT No.	SUPPLY AIR	RETURN AIR	OUTSIDE AIR @50%
RTU–1	5000	4185	815
RTU–2	7000	5800	1200
RTU–3	6000	4800	1200
RTU–4	6000	4800	1200
RTU–5	6000	4800	1200
TOTAL	30,000	24,385	5,615

ROOFTOP UNIT SCHEDULE

MARK	MFG'R	MODEL	NOM. TONS	SUPPLY CFM	SUPPLY FAN H.P.	EXT. S.P.	O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL								E.E.R.	OPER. WEIGHT LBS	ZONE SERVED	REMARKS
								COOLING TOTAL	COOLING SENSIBLE	HEATING INPUT	HEATING OUTPUT	COMP. NO.	COMP. RLA EA.	FAN NO.	FAN FLA EA.	VOLT	ø	MCA	FUSE SIZE				
RTU 1	LENNOX	LGH150	12.5	5000	5.0	0.6"	815	164,000	124,000	130,000	104,000	2	9.7	4	1.3	460	3	33.0	40	10.8	1401	KITCHEN	SEE NOTES
RTU 2	LENNOX	LGH210	17.5	7000	7.5	0.6"	1200	204,000	193,000	260,000	208,000	3	7.8 7.8 9.7	6	1.3	460	3	47.0	50	12.0	2615	GAMES DINING	SEE NOTES
RTU 3	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	DINING	SEE NOTES
RTU 4	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	DINING	SEE NOTES
RTU 5	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	TOILET ROOMS STAGE DINING	SEE NOTES

NOTES:

1. HVAC UNITS PROVIDED BY OWNER.
2. UNITS SELECTED AT 80°F DB, 67°F WB, 95°F OUTDOOR AMBIENT.
3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
4. PROVIDE 14" ROOF CURB.
5. PROVIDE UNIT WITH CO2 INDOOR AIR QUALITY SENSOR AND CONTROLS. MINIMUM O.A. SETTING @ 50% REQUIRED VENTILATION.
6. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF DAMPER.
7. PROVIDE TWO SETS OF 2" 30% PLEATED FILTERS. CHANGE FILTERS PRIOR TO AIR BALANCE, AND AFTER FINAL STORE CLEANING. DATE FILTERS.
8. OWNER TO PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL REMOTE THERMOSTAT. M.C. TO INSTALL IN MANAGER'S OFFICE. OWNER TO PROVIDE SENSOR. M.C. TO INSTALL AT LOCATION SHOWN IN DINING ROOM. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY.
9. LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN RETURN AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SIGNAL FIRE ALARM PANEL AND SHUT DOWN RTU.
10. ROOFTOP UNIT SHALL HAVE FACTORY INSTALLED NEMA 3R DISCONNECT SWITCH, WP & GFCI

PLEASE NOTE:

HVAC units provided by Owner. Chuck E. Cheese has an exclusive National Account agreement with Lennox Industries. Please contact your local Lennox sales office for information, or contact Lennox National Account Manager Chris Murray at 1–800–367–6285.

FAN SCHEDULE

MARK	MFG'R	MODEL	CFM	EXT. S.P.	TYPE	SERVING	ELECTRICAL			OPER. WEIGHT LBS	REMARKS
							H.P.	VOLT	ø		
EF 1	SEE NOTES	DU85HFA	1100	0.50"	CENT.	PIZZA HOOD	1	120	1	60	PROVIDE WITH HINGE KIT, ROOF CURB W/ VENTED EXTENSION, DISCONNECT,
EF 2	SEE NOTES	DU30HFA	350	0.75"	CENT.	DISHWASH MACHINE	1/4	120	1	50	PROVIDE WITH ROOF CURB, DISCONNECT AND EPOXY COATING. INTERLOCK WITH DISHWASH MACHINE, REFER TO ELECTRICAL DRAWINGS.
EF 3	LOREN COOK	100 ACEB	950	0.375"	CENT.	TOILETS	1/4	120	1	35	PROVIDE WITH ROOF CURB, DISCONNECT, BIRD SCREEN AND BACKDRAFT DAMPER. EXHAUST FAN AND ACCESSORIES BY MECHANICAL CONTRACTOR.
FF 1	MARS	42CH	2,550	--	--	DELIVERY DOOR	1/2	120	1	55	PROVIDED BY KITCHEN EQUIPMENT SUPPLIER WITH AUTOMATIC DOOR PLUNGER SWITCH. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

NOTES:

1. FAN IS PART OF HOOD PACKAGE PROVIDED BY OWNER. CONTACT CAPTIVE–AIRE FOR INFORMATION. FANS AND HOODS SUPPLIED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW	⁝	LINED DUCTWORK
Ⓣ	THERMOSTAT	⌐	RECTANGULAR ELBOW WITH TURNING VANES
—⋈—	GATE VALVE	|||||||||||	ROUND FLEXIBLE DUCT CONNECTION
—N—	CHECK VALVE	⊠	90 DEGREE ELBOW DOWN
—Y—	STRAINER	⊠	90 DEGREE ELBOW UP
—‖—	UNION	▥	FLEXIBLE DUCT CONNECTION
⊘	PRESSURE GAUGE	⊠	SUPPLY AIR DEVICE
🌡	THERMOMETER	⊏⊐	DUCT SIZE TRANSITION
E.A.	EXHAUST AIR	CHWS	CHILLED WATER SUPPLY
Ⓕ—F.D.	FIRE DAMPER	CHWR	CHILLED WATER RETURN
H.O.A.	HAND – OFF – AUTOMATIC	CWS	CONDENSER WATER SUPPLY
N.C.	NORMALLY CLOSED	CWR	CONDENSER WATER RETURN
N.O.	NORMALLY OPEN	HWS	HOT WATER SUPPLY
M.A.	MIXED AIR	HWR	HOT WATER RETURN
O.A.	OUTSIDE AIR	RS	REFRIGERANT SUCTION
REL. A.	RELIEF AIR	RL	REFRIGERANT LIQUID
R.A.	RETURN AIR	FOT	FLAT ON TOP
(SD)	DUCT MOUNTED SMOKE DETECTOR	-D-	CONDENSATE DRAIN (PITCHED)
⊞	MANUAL BALANCING DAMPER	—⫲—	BACKDRAFT DAMPER
M—	MOTORIZED DAMPER	◐—	POINT OF CONNECTION
⧄	CEILING RETURN AIR DEVICE		NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
⧓	SUPPLY DUCT RISER		

AIR DISTRIBUTION

MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPT'N	NOTES
CFM A	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM B	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM C	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	6"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM D	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	14"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 3
CFM E	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	12"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 3
CFM F	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 2
CFM G	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 3
CFM H	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	6"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 3
CFM I	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	48x24	46x22	LAY–IN	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM J	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM K	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	PERFORATED EXHAUST GRILLE	1, 3
CFM L	TITUS OR EQUAL	8F	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	PERFORATED EXHAUST GRILLE	5
CFM M	TITUS OR EQUAL	272FS	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SIDEWALL	SIDEWALL SUPPLY GRILLE	1
CFM N	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SIDEWALL	0° DEFLECTION SLOTTED EXHAUST GRILLE	1
CFM O	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	SURFACE	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM P	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	SURFACE	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3

NOTES:

1. PROVIDE WITH OFF–WHITE FINISH.
2. PROVIDE WITH AG–75 DAMPER.
3. PROVIDE WITH AG–35–AA DAMPER.
4. PROVIDE WITH MP–39 DIFFUSER PLENUM. PROVIDE OVAL TO ROUND TRANSITION AS REQUIRED.
5. PROVIDE WITH AG–15–AA DAMPER.

ROOFTOP UNIT LABELING

ALL ROOFTOP UNITS ARE TO BE LABELED WITH ENGRAVED LAMINATED NAMEPLATES, SCREWED TO THE EXTERIOR OF THE UNITS SHOWING THE FOLLOWING INFORMATION :

1. UNIT NUMBER ______________
2. MODEL NUMBER ______________
3. SERIAL NUMBER ______________
4. GAS OR ELECTRIC HEAT ______________
5. TONNAGE ______________
6. VOLTAGE ______________

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH (314) 415-2400 FAX (314) 415-2300 www.arcv.com

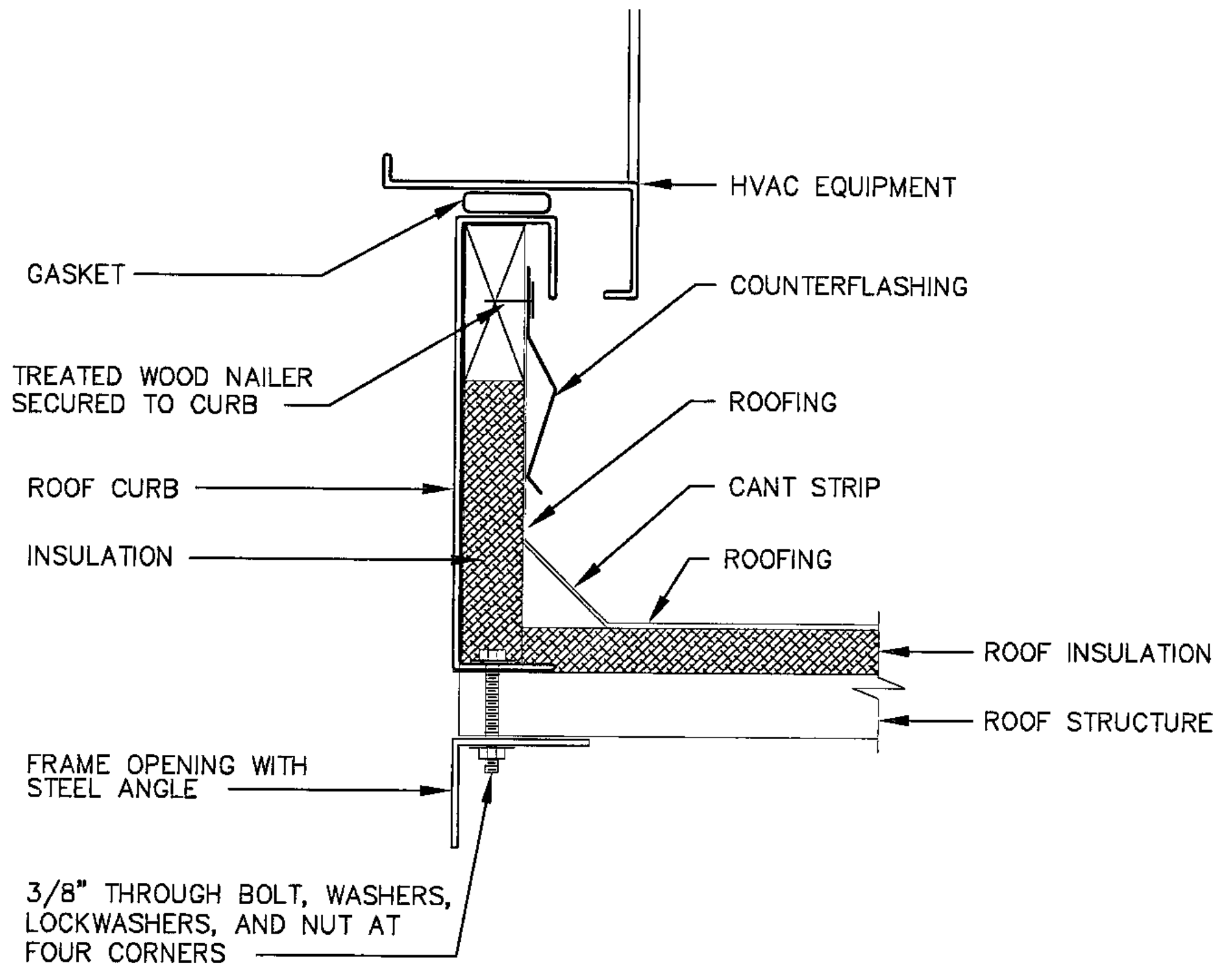
CHUCK E. CHEESE'S
3001 COLLEGE AVE
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

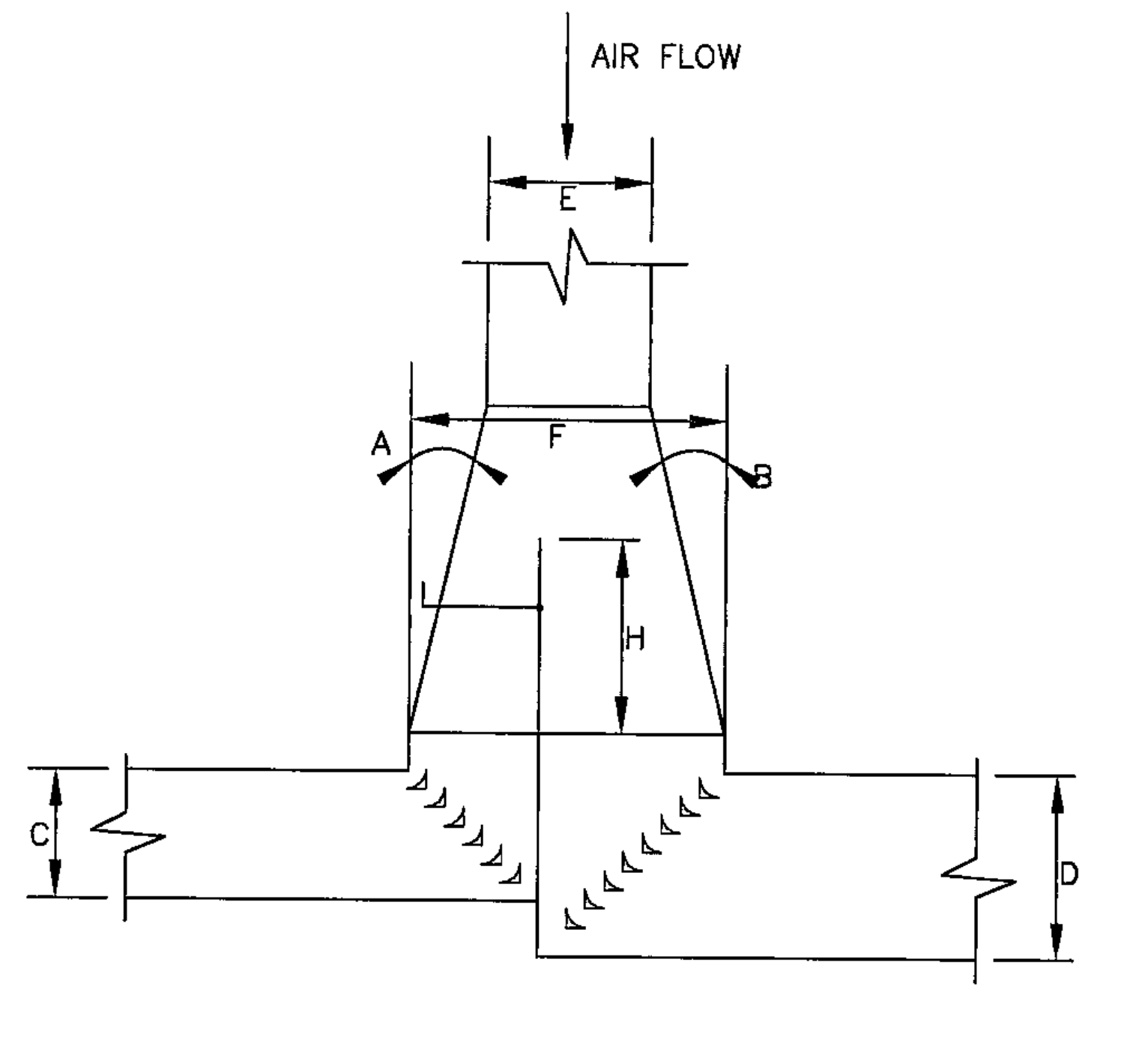
PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

MECH. SCHED + DETAIL

M1.2

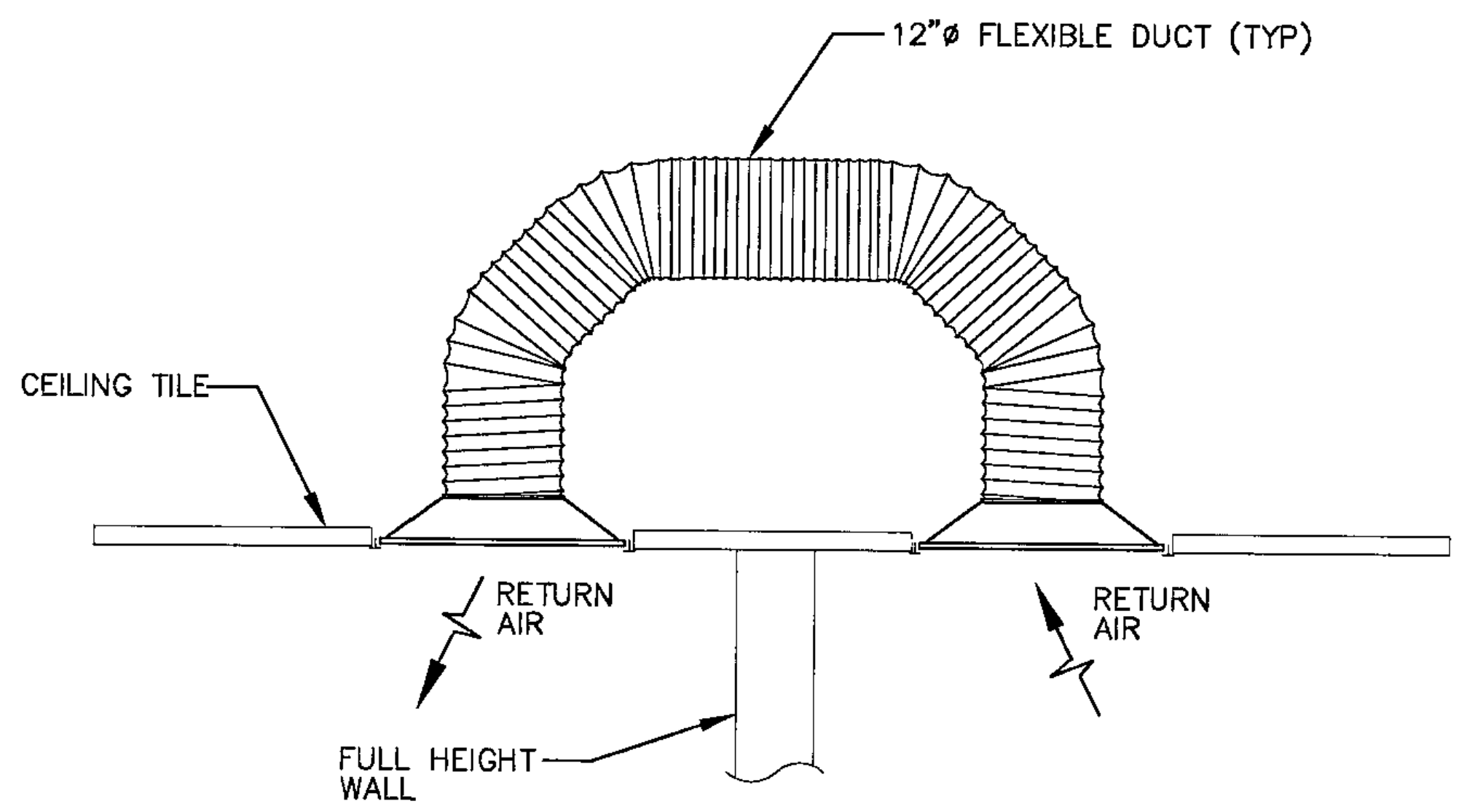

HVAC EQUIPMENT
GASKET
COUNTERFLASHING
TREATED WOOD NAILER SECURED TO CURB
ROOFING
ROOF CURB
CANT STRIP
INSULATION
ROOFING
ROOF INSULATION
ROOF STRUCTURE
FRAME OPENING WITH STEEL ANGLE
3/8" THROUGH BOLT, WASHERS, LOCKWASHERS, AND NUT AT FOUR CORNERS

01 ROOFTOP CURB DETAIL
Scale: NO SCALE

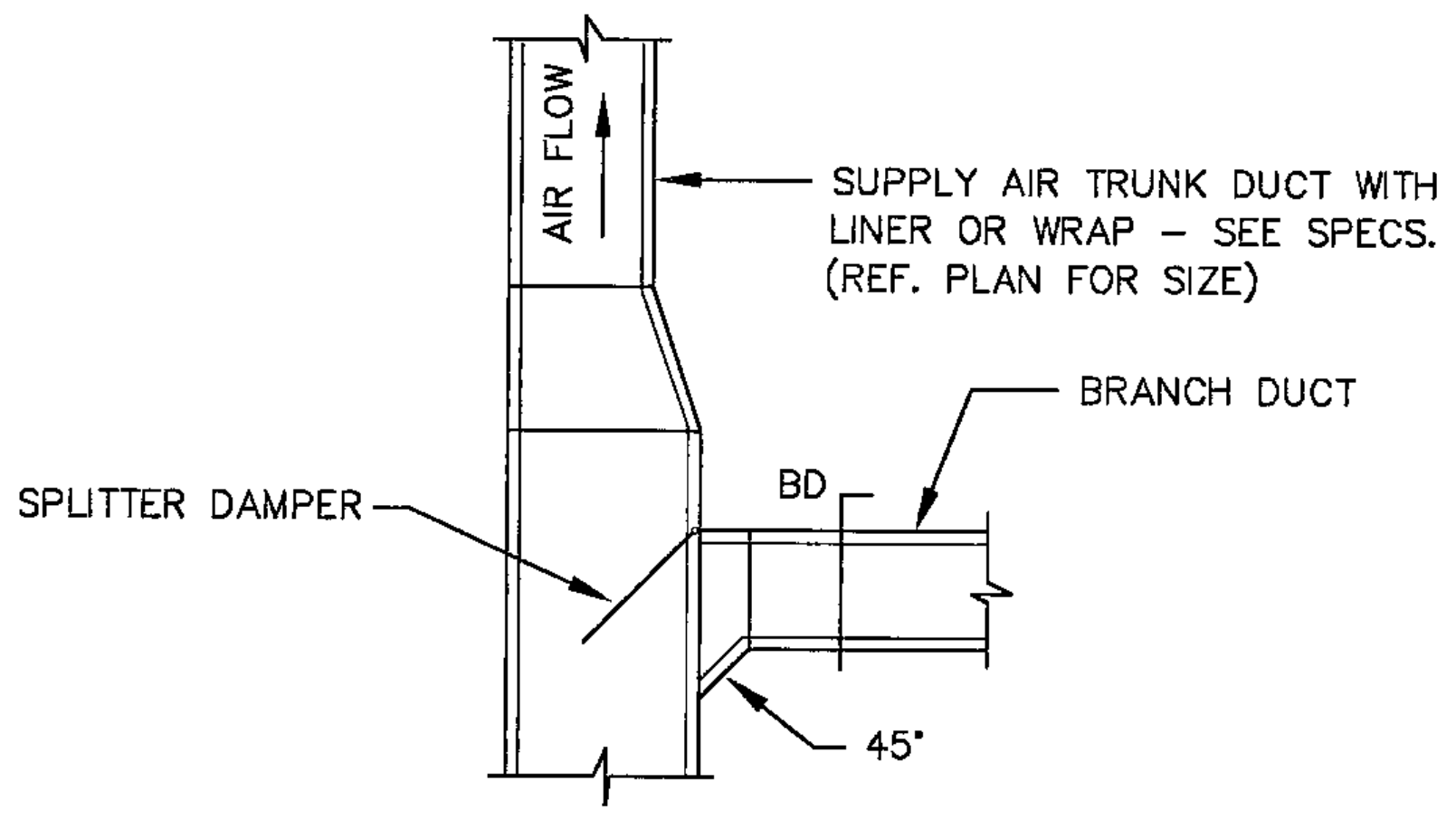


DIMENSIONAL RELATIONSHIP
1. ANGLES A & B EACH TO BE 20 DEGREES OR LESS
2. SEE FLOOR PLANS FOR VALUES FOR C, D & E.
3. F = C + D
4. H = 1.5 x C
5. HEIGHT OF FITTING EQUAL OT THAT OF HIGHEST OF THE THREE DUCTS
6. CHANGE IN HEIGHTS OF DOWNSTREAM DUCTS TO OCCUR AFTER THE TURN

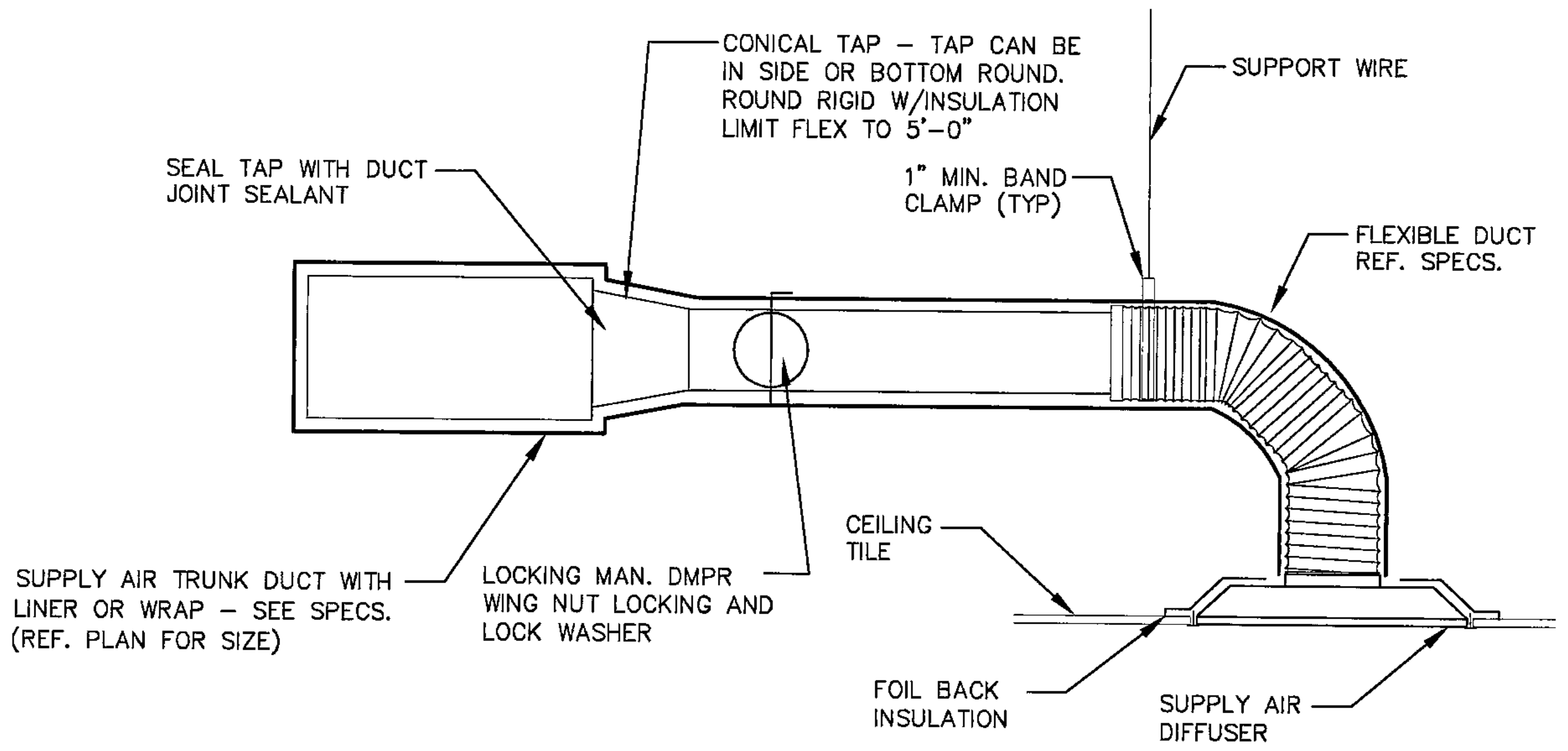
02 SPLITTER TEE
Scale: NO SCALE



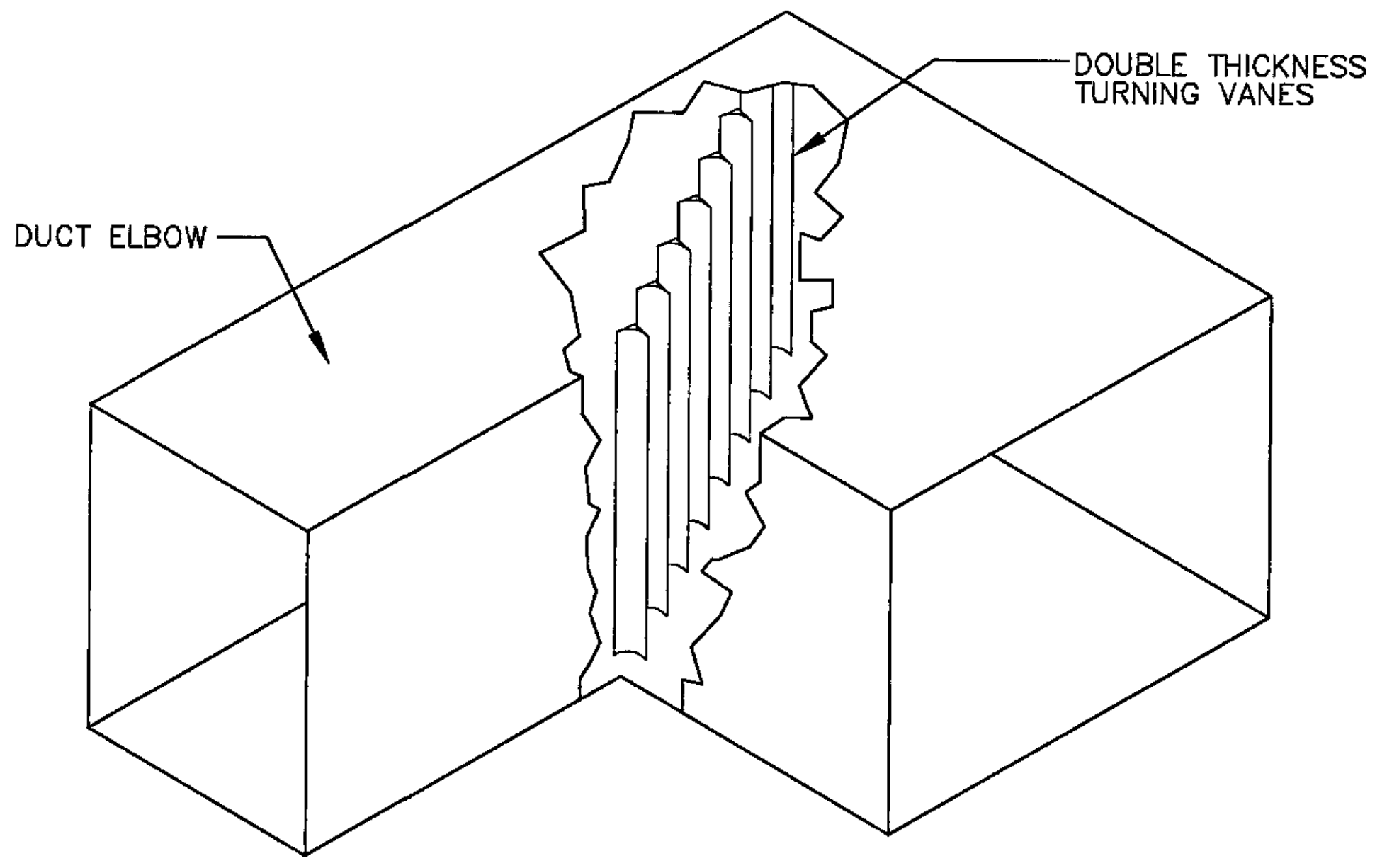
03 TRANSFER DUCT DETAIL
Scale: NO SCALE


AIR FLOW
SUPPLY AIR TRUNK DUCT WITH LINER OR WRAP - SEE SPECS. (REF. PLAN FOR SIZE)
BRANCH DUCT
BD
SPLITTER DAMPER
45°

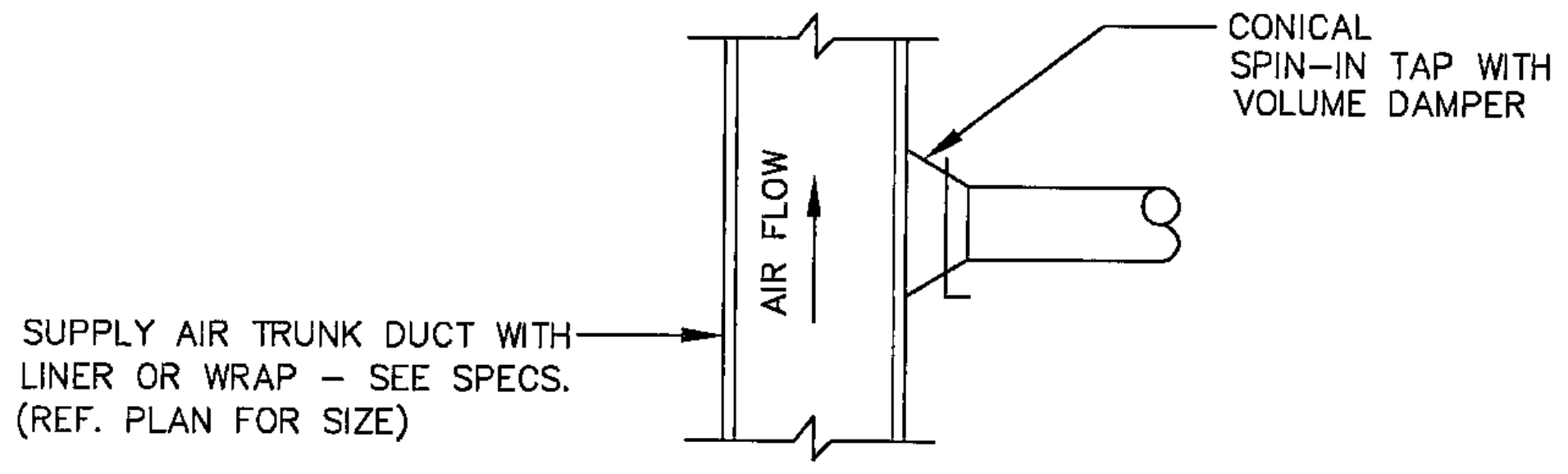
04 TYP. BRANCH DUCT TAP
Scale: NO SCALE


CONICAL TAP - TAP CAN BE IN SIDE OR BOTTOM ROUND. ROUND RIGID W/INSULATION LIMIT FLEX TO 5'-0"
SUPPORT WIRE
SEAL TAP WITH DUCT JOINT SEALANT
1" MIN. BAND CLAMP (TYP)
FLEXIBLE DUCT REF. SPECS.
CEILING TILE
SUPPLY AIR TRUNK DUCT WITH LINER OR WRAP - SEE SPECS. (REF. PLAN FOR SIZE)
LOCKING MAN. DMPR WING NUT LOCKING AND LOCK WASHER
FOIL BACK INSULATION
SUPPLY AIR DIFFUSER

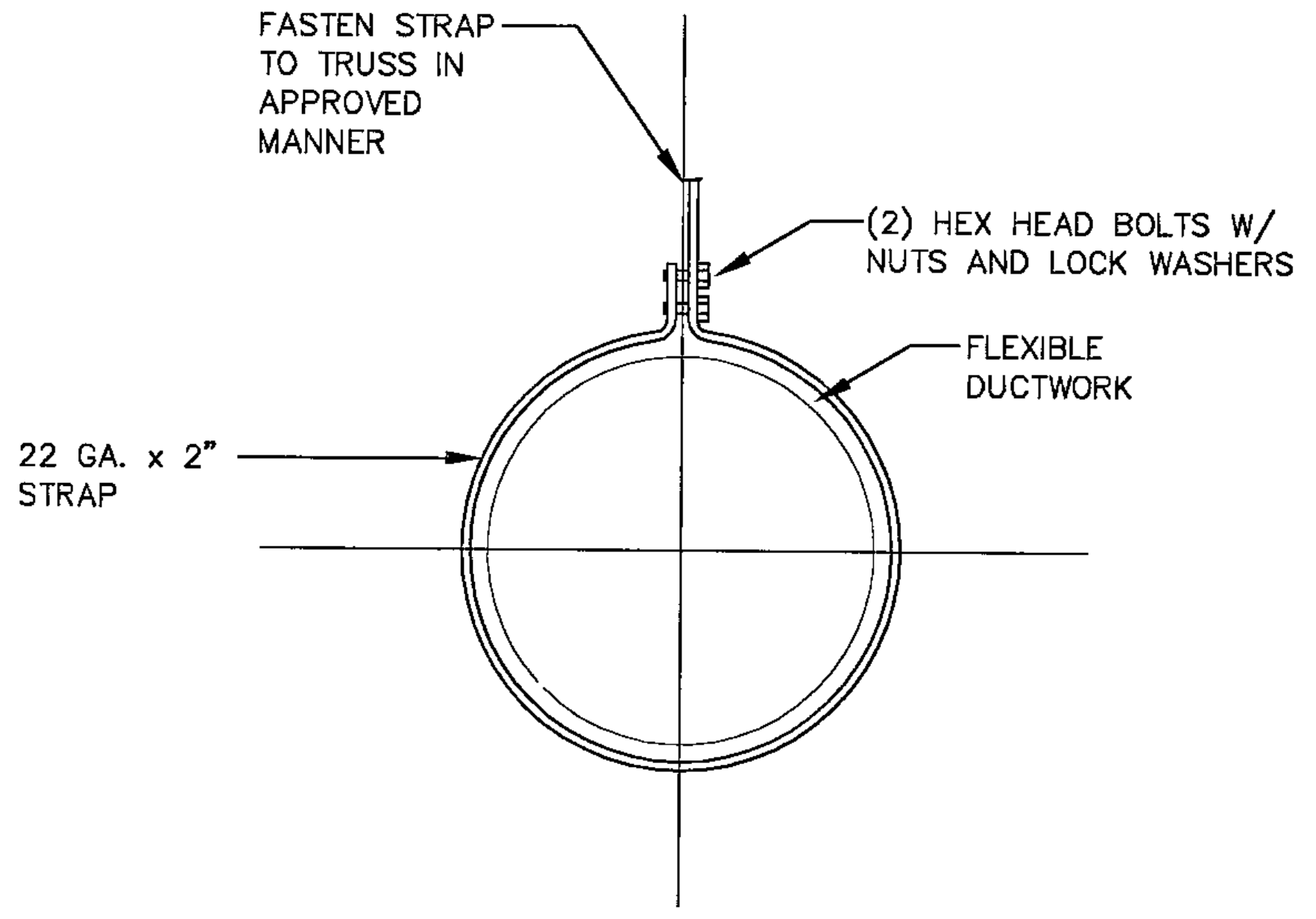
05 DIFFUSER CONNECTION DETAIL
Scale: NO SCALE



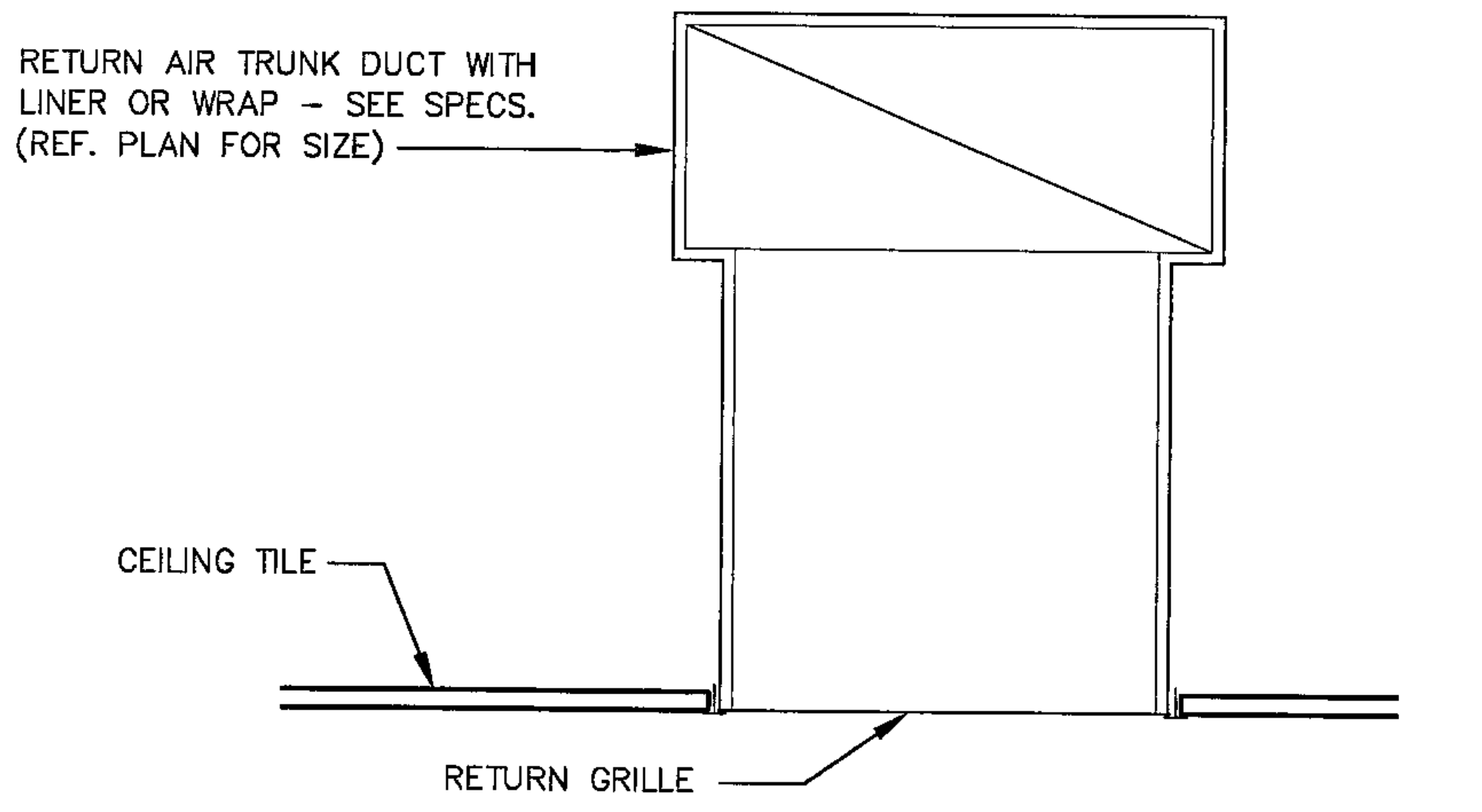
06 MITERED ELBOW
Scale: NO SCALE


CONICAL SPIN-IN TAP WITH VOLUME DAMPER
AIR FLOW
SUPPLY AIR TRUNK DUCT WITH LINER OR WRAP - SEE SPECS. (REF. PLAN FOR SIZE)

07 SPIN-IN TAP DETAIL
Scale: NO SCALE


FASTEN STRAP TO TRUSS IN APPROVED MANNER
(2) HEX HEAD BOLTS W/ NUTS AND LOCK WASHERS
FLEXIBLE DUCTWORK
22 GA. x 2" STRAP

08 FLEX DUCT SUPPORT
Scale: NO SCALE


RETURN AIR TRUNK DUCT WITH LINER OR WRAP - SEE SPECS. (REF. PLAN FOR SIZE)
CEILING TILE
RETURN GRILLE

09 RETURN AIR CONNECTION
Scale: NO SCALE

REGISTRATION SEAL
FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2998
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
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SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

MECHANICAL DETAILS

M1.3

HOOD INFORMATION

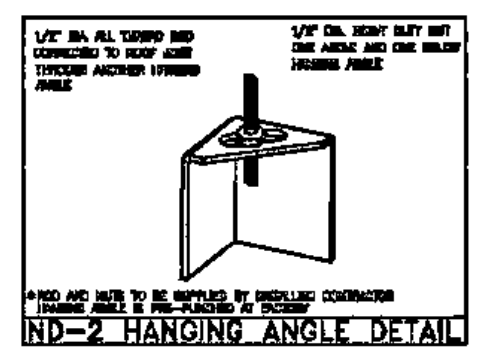
HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM TOTAL EXH. CFM	EXHAUST RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.	SUPPLY PLENUM TOTAL SUP. CFM	SUPPLY RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1	6624 VH1-G-ND	8' 0.00"	700 Deg.	2000	13" 13"	13" 13"		1000 1000	-0.000" -0.000"	0						430 SS 100%	ALONE	N/A
2	4224 VHB-G	3' 6.00"Nom. 3' 6.00"OD	700 Deg.	350	7"	8"		350	-0.018"	0						304 SS 100%	ALONE	N/A

HOOD INFORMATION

HOOD NO.	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	LIGHT(S) QTY.	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	LOCATION	FIRE SYSTEM PIPING	HOOD WEIGHT
1					3	Incandescent Light	NO							NO	345 LBS.
2					0									NO	136 LBS.

HOOD OPTIONS

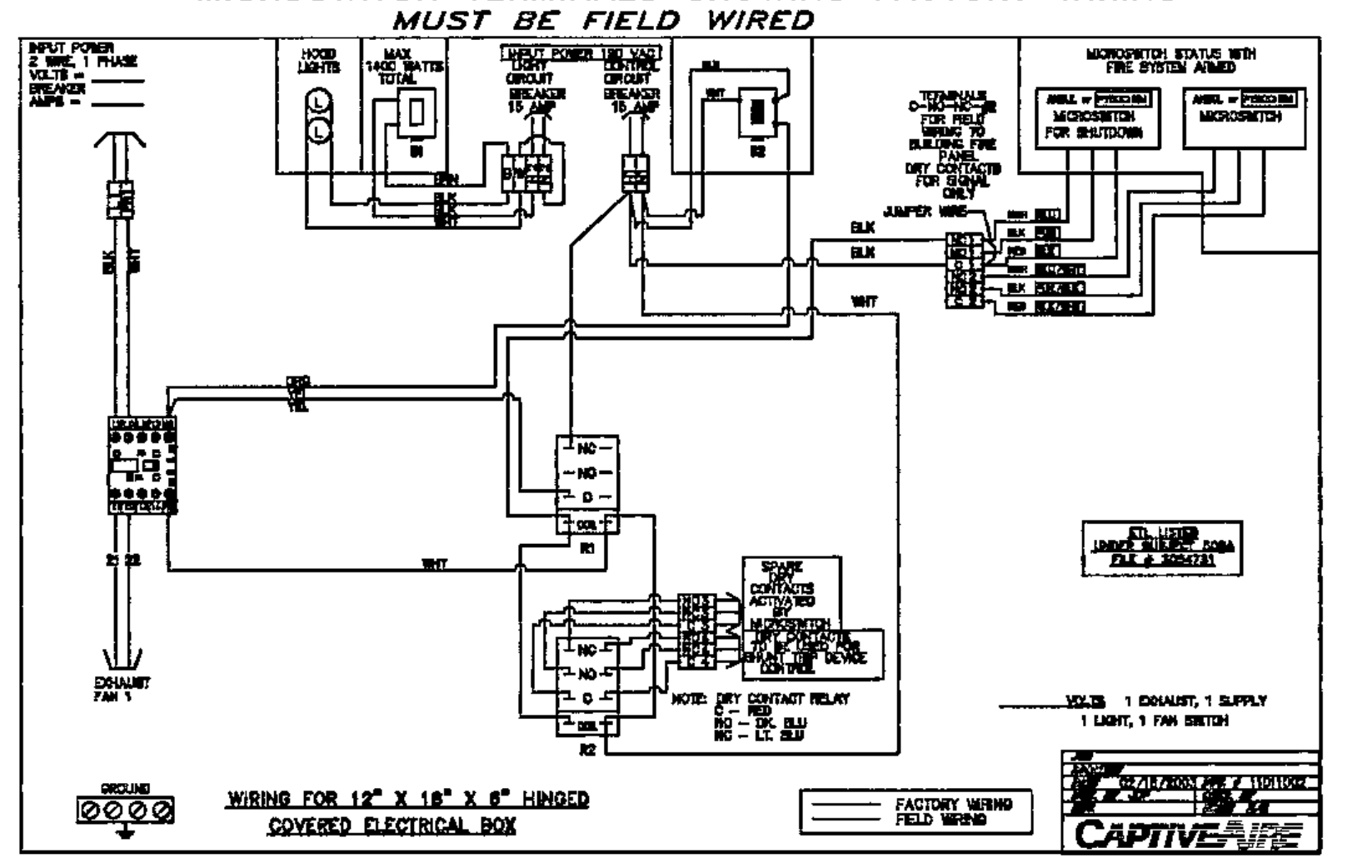
HOOD NO.	OPTION
1	BACKSPLASH 80.00" High X 96.00" Long 430 SS

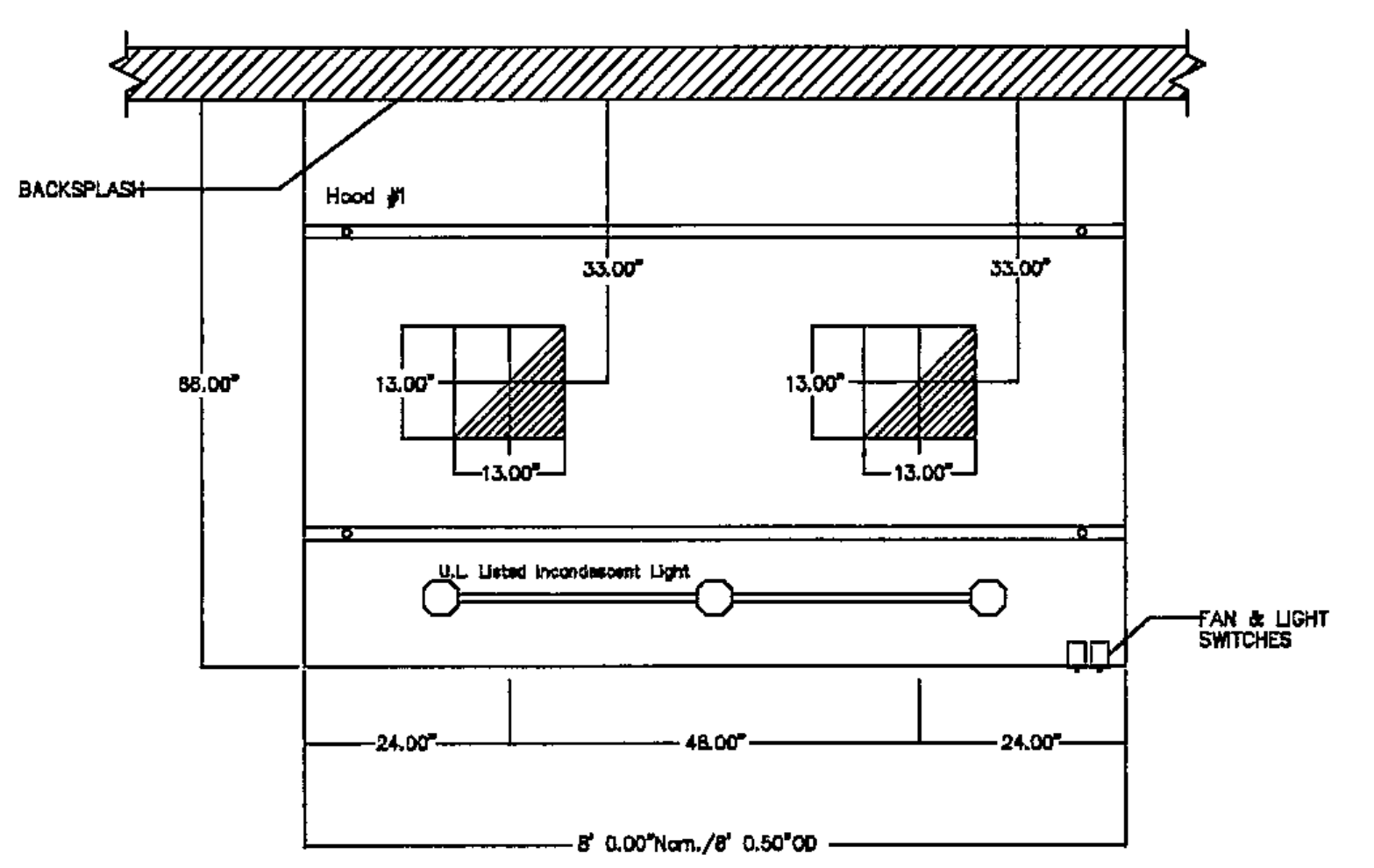

ND-2 HANGING ANGLE DETAIL

ELECTRICAL PACKAGES

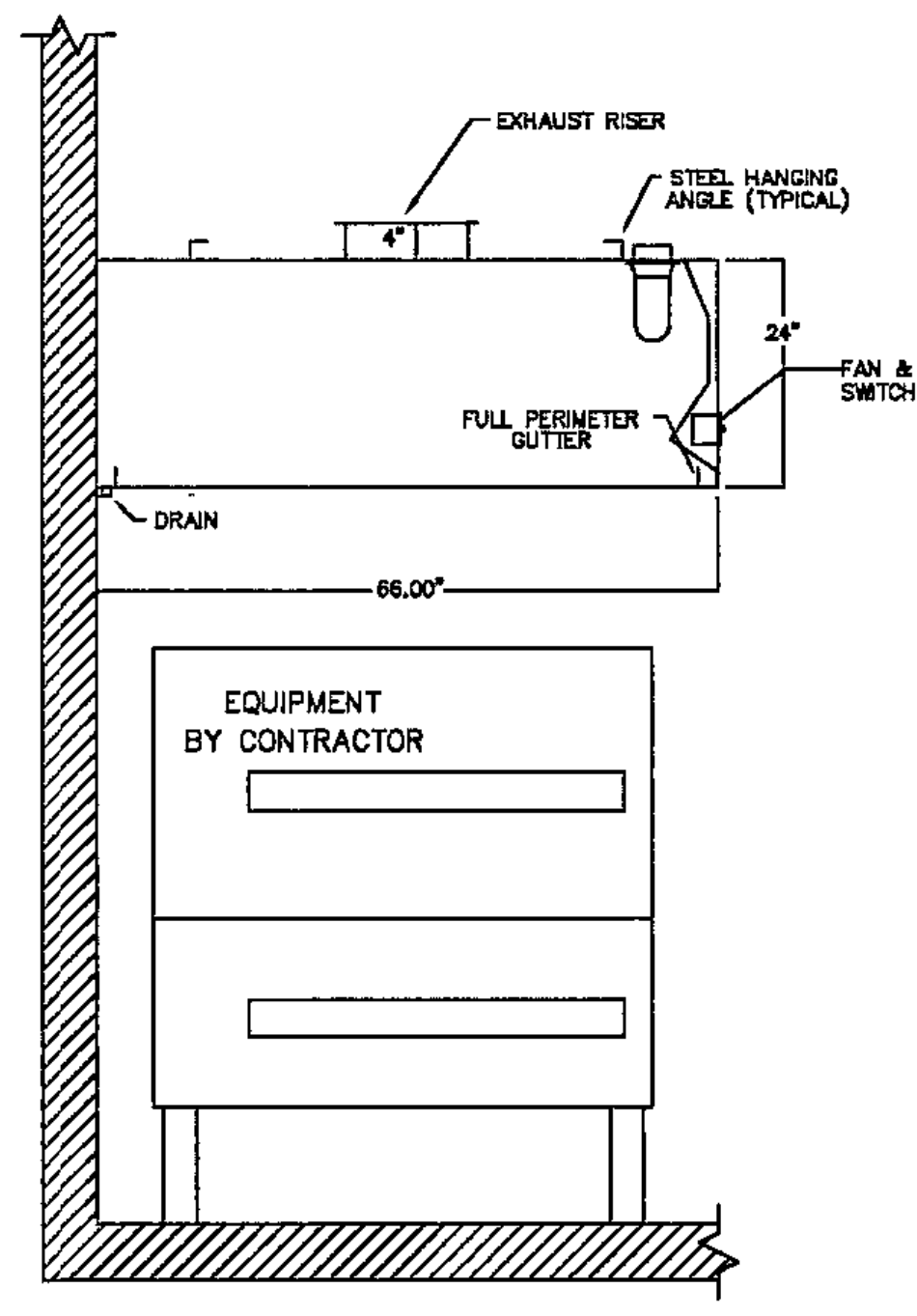
NO.	TAG	PACKAGE #	LOCATION	SWITCHES LOCATION	SWITCHES QUANTITY	ROOFTOP STARTERS	OPTION	FANS CONTROLLED TYPE	#	H.P.	VOLT.	FLA
1		11011002	Ship Loose With Hood	Face Mount Right side Hood # 1	1 Light 1 Fan			Exhaust	1	0.750	115	13.0

NOTE: IF WALL MOUNT PREWIRE, OR FIELD INSTALLED FIRE SYSTEM MICROSWITCH TERMINALS SHOWING FACTORY WIRING MUST BE FIELD WIRED


INPUT POWER 2 WIRE, 1 PHASE VOLTS = BREAKER AMPS =
HOOD LIGHTS
MAX 1400 WATTS TOTAL
INPUT POWER 120 VAC
LIGHT CIRCUIT BREAKER 15 AMP
CONTROL CIRCUIT BREAKER 15 AMP
MICROSWITCH STATUS WITH FIRE SYSTEM ARMED
MICROSWITCH FOR SHUTDOWN
MICROSWITCH
JUMPER WIRE
BLK
WHT
FACTORY WIRING
FIELD WIRING
CAPTIVEAIRE
WIRING FOR 12" X 16" X 6" HINGED COVERED ELECTRICAL BOX

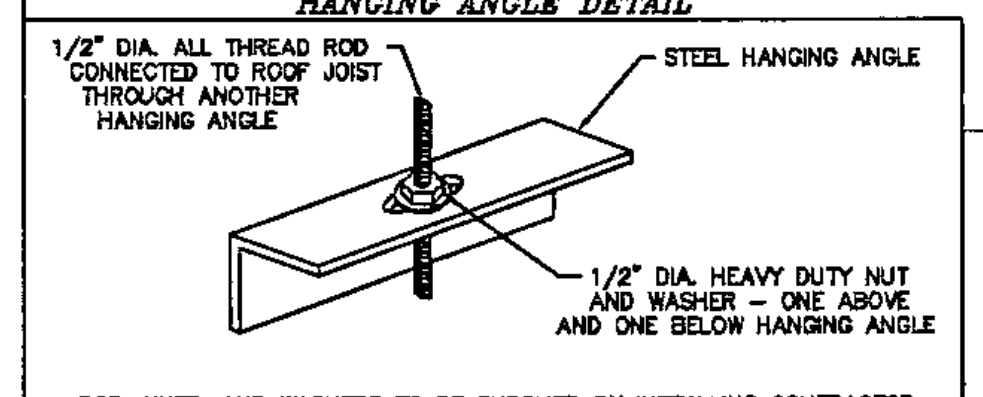


PLAN VIEW – 8' 0.00" LONG 6624VH1-G



SECTION VIEW – MODEL 6624-VH1-ND WITH FULL PERIMETER GUTTER

HANGING ANGLE DETAIL


1/2" DIA. ALL THREAD ROD CONNECTED TO ROOF JOIST THROUGH ANOTHER HANGING ANGLE
STEEL HANGING ANGLE
1/2" DIA. HEAVY DUTY NUT AND WASHER – ONE ABOVE AND ONE BELOW HANGING ANGLE
ROD, NUTS, AND WASHERS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE ____________
Your Title ____________ Date ________

FOR QUESTIONS, CALL THE
NORTH TEXAS REGIONAL OFFICE
3402 OAK GROVE AVE, STE 302, DALLAS TX 75204
PHONE: (214) 220-3999, (800) 833-3788
FAX: (214) 220-0099

CAPTIVEAIRE

JOB Chuck E Cheese	
LOCATION type 2 prototype with dish	
DATE 7/11/07	JOB # 622546
DWG # Chuck2	DRAWN BY cjp-45
REV. 1.00	SCALE 3/4"

FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	EXHAUST FAN MODEL	TAG	CFM	S.P.	RPM	H.P.	#	VOLT	FLA	SUPPLY FAN BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	#	VOLT	FLA
1	DU85HFA EF1 hood	DU85HFA		2000	- 0.500"	1187	0.750	1	115	13.0										
2	DU25HFA EF2 dish	DU25HFA		350	- 0.500"	1051	0.250	1	115	3.4										
3	DR30HFA EF3 toilet	DR30HFA		950	- 0.500"	1437	0.250	1	115	4.0										

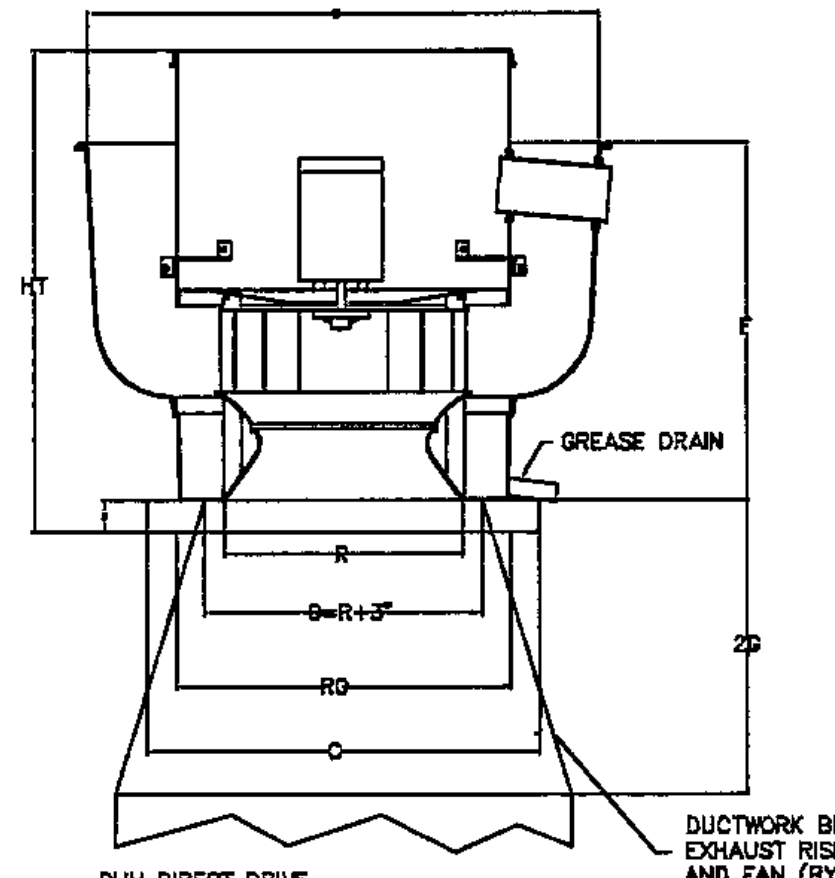
CURB ASSEMBLIES

NO.	ON FAN	ITEM	SIZE
1	# 1	Curb	23.000"W x 23.000"L x 20.000"H Vented
2	# 2	Curb	19.500"W x 19.500"L x 14.000"H
3	# 3	Curb	19.500"W x 19.500"L x 20.000"H

FAN OPTIONS

FAN NO.	OPTION (Qty. – Descr.)
3	1 – I 15-BDD Damper

DUHFA SERIES UPBLAST EXHAUST FANS (UL762)



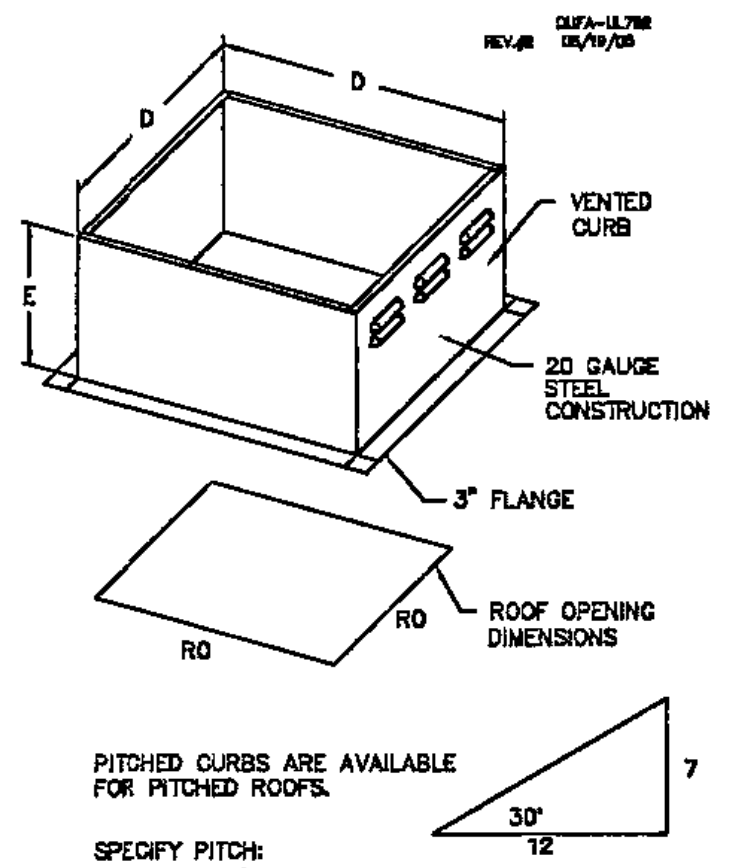
FEATURES:
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

GREASE BOX
HINGED FAN
PITCHED CURB
INSULATED CURB



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

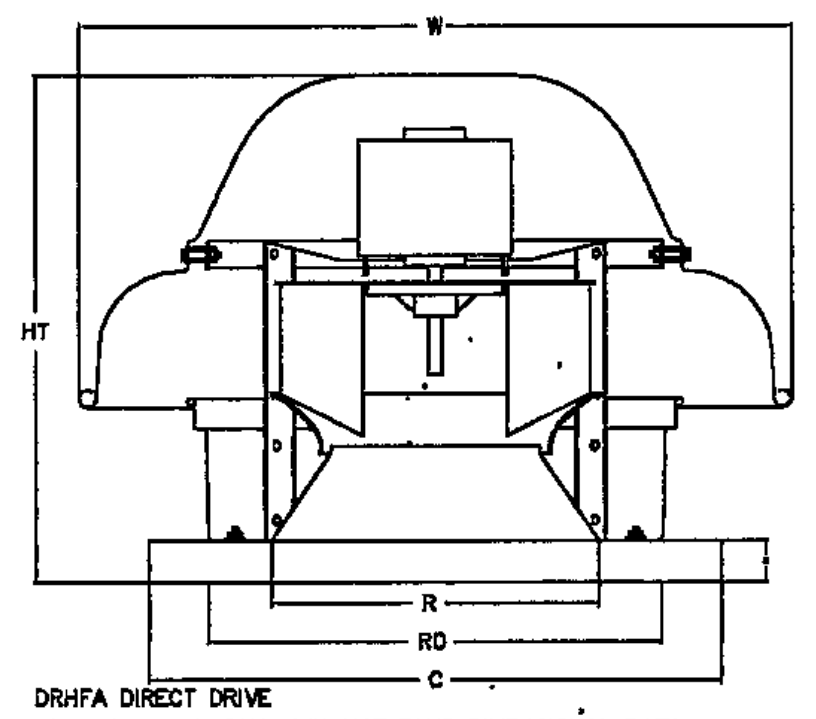
DUH DIRECT DRIVE
CENTRIFUGAL UP-BLAST EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	F	R	RO	WEIGHT LB
DU85HFA	30 1/2	31 7/8	2	24 3/4	23	14 7/8	21	80

CURB DIMENSIONAL DATA

FAN MODEL	D	E
DU85HFA	23	20

DRHFA SERIES RADIAL EXHAUST FANS

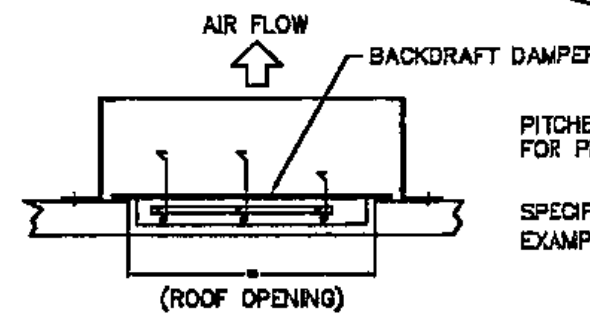


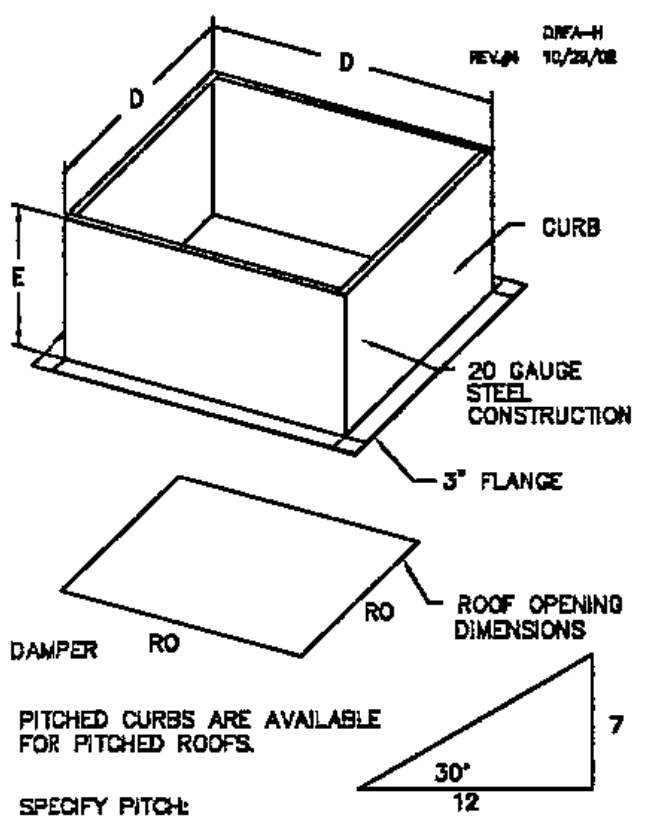
FEATURES:
- ROOF MOUNTED FANS
- UL705
- SAFETY DISCONNECT
- STANDARD BIRD SCREEN
- SPEED CONTROL

OPTIONS:

BACKDRAFT DAMPER
HINGED FAN
PITCHED CURB
INSULATED CURB

BACKDRAFT DAMPER INSTALLATION





PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

DRHFA DIRECT DRIVE
CENTRIFUGAL RADIAL EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	R	RO	WEIGHT LB
DR30HFA	19 1/8	26 1/4	2	21	12 1/8	18	45

CURB DIMENSIONAL DATA

FAN MODEL	D	E
DR30HFA	19 1/2	12

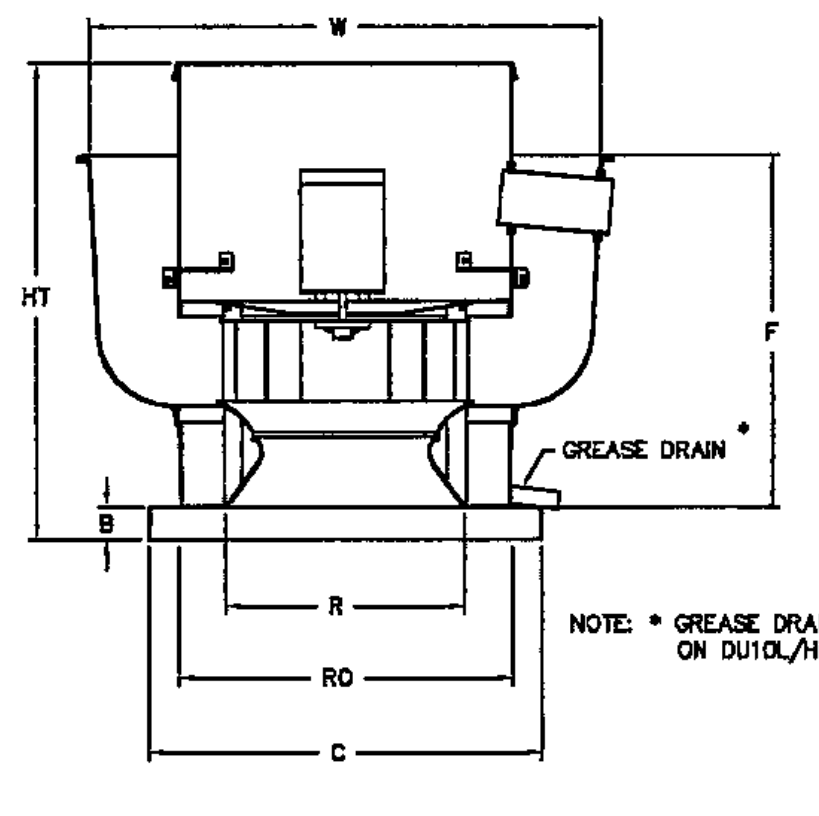
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE ____________
Your Title ____________ Date ________

FOR QUESTIONS, CALL THE
NORTH TEXAS REGIONAL OFFICE
3402 OAK GROVE AVE, STE 302, DALLAS TX 75204
PHONE: (214) 220-3999, (800) 833-3788
FAX: (214) 220-0099

DUHFA SERIES UPBLAST EXHAUST FANS (UL705)



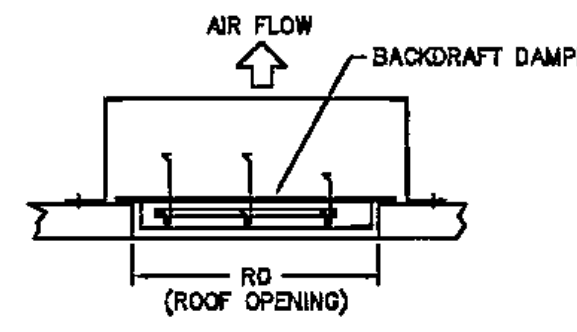
NOTE: * GREASE DRAIN NOT REQ'D ON DU10L/HFA

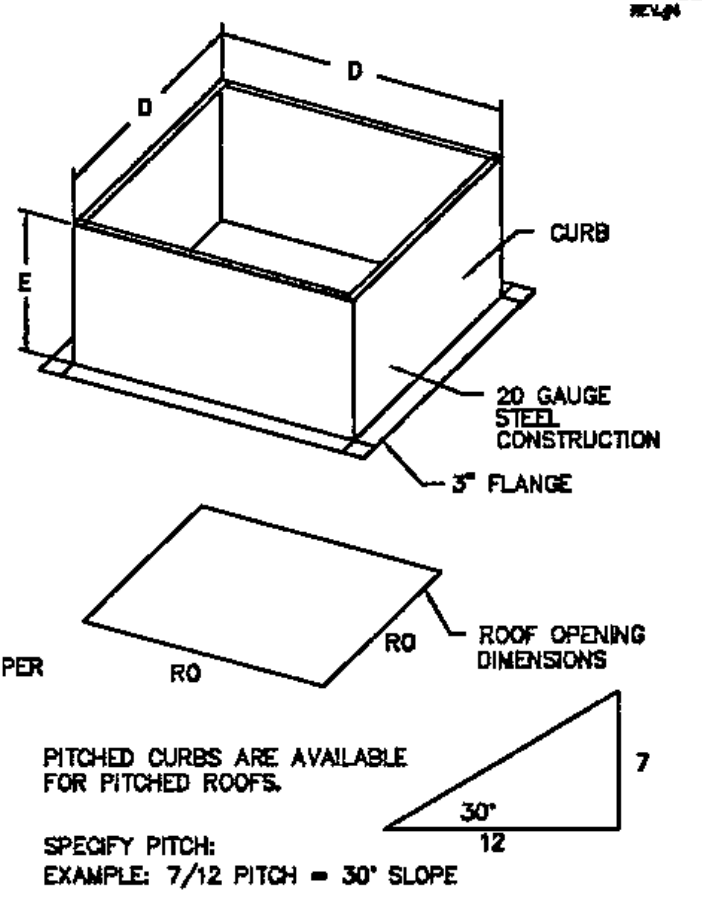
FEATURES:
- ROOF MOUNTED FANS
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

OPTIONS:

BACKDRAFT DAMPER
HINGED FAN
PITCHED CURB
INSULATED CURB
BIRD SCREEN

BACKDRAFT DAMPER INSTALLATION





PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

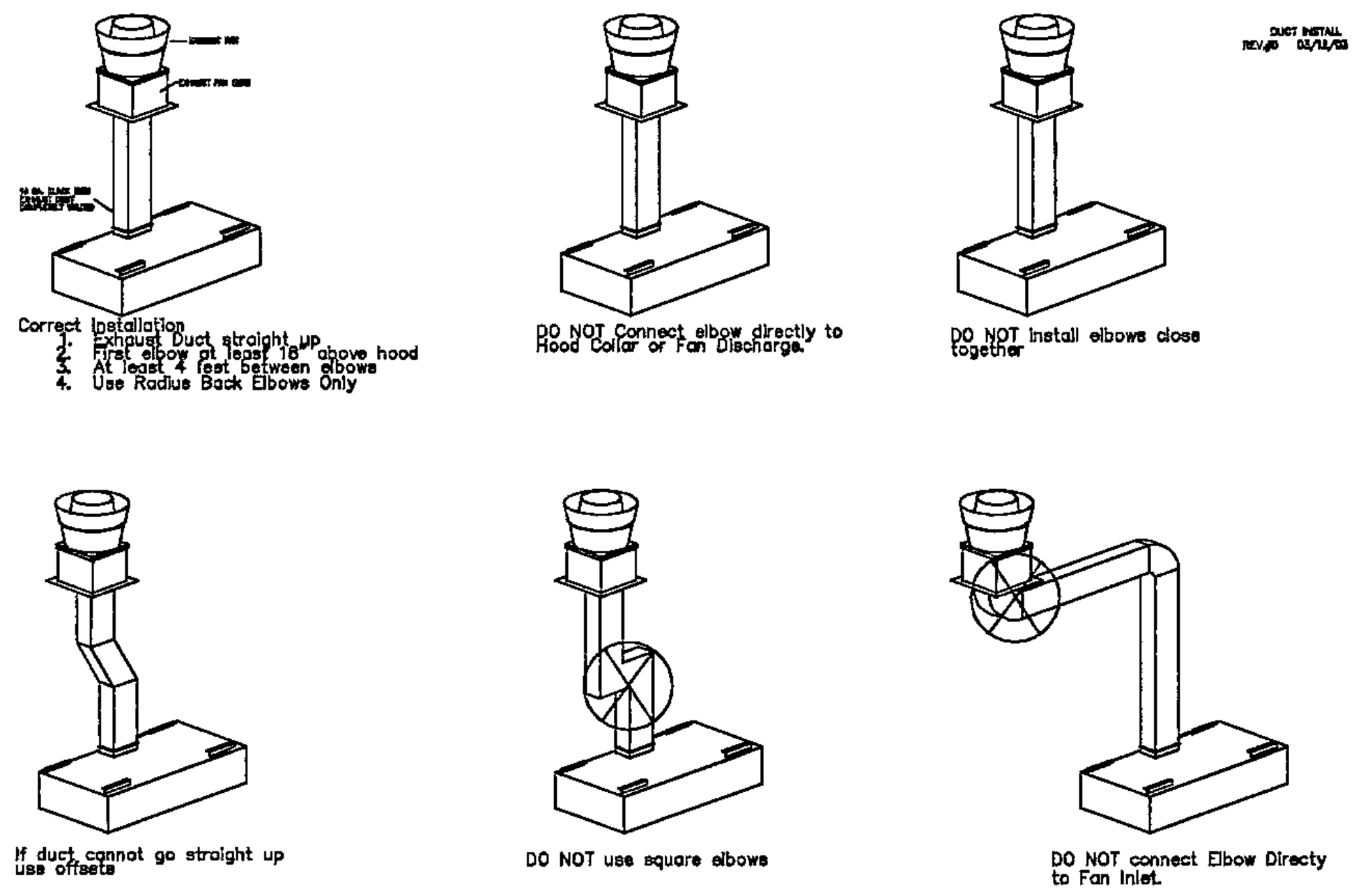
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

DUHFA DIRECT DRIVE
CENTRIFUGAL UP-BLAST EXHAUST FANS DIMENSIONAL DATA

FAN MODEL	HT	W	B	C	F	R	RO	WEIGHT LB
DU10HFA	14 1/2	17 3/4	2	19	9 1/2	8 1/8	13	30
DU12HFA	18	22	2	19	14 1/2	10 5/8	13	40
DU25HFA	25 1/4	25 1/2	2	21	18 1/2	12 1/8	16	50
DU30HFA	25 1/4	25 1/2	2	21	18 1/2	12 1/8	16	50
DU33HFA	25 1/4	25 1/2	2	21	18 1/2	12 1/8	16	50
DU50HFA	27 1/4	28 7/8	2	21	21 1/2	13 1/4	18	55
DU75HFA	30 1/2	31 7/8	2	24 3/4	23	14 7/8	20	80
DU85HFA	30 1/2	31 7/8	2	24 3/4	23	14 7/8	20	80

CURB DIMENSIONAL DATA

FAN MODEL	D	E
DU10HFA	17 1/2	12
DU12HFA	17 1/2	12
DU25HFA	19 1/2	12
DU30HFA	19 1/2	12
DU33HFA	19 1/2	12
DU50HFA	19 1/2	12
DU75HFA	23	12
DU85HFA	23	12



Correct Installation
1. Exhaust Duct straight up
2. First elbow at least 18" above hood
3. At least 4 feet between elbows
4. Use Radius Back Elbows Only

DO NOT Connect elbow directly to Hood Collar or Fan Discharge.

DO NOT install elbows close together

If duct cannot go straight up use offsets

DO NOT use square elbows

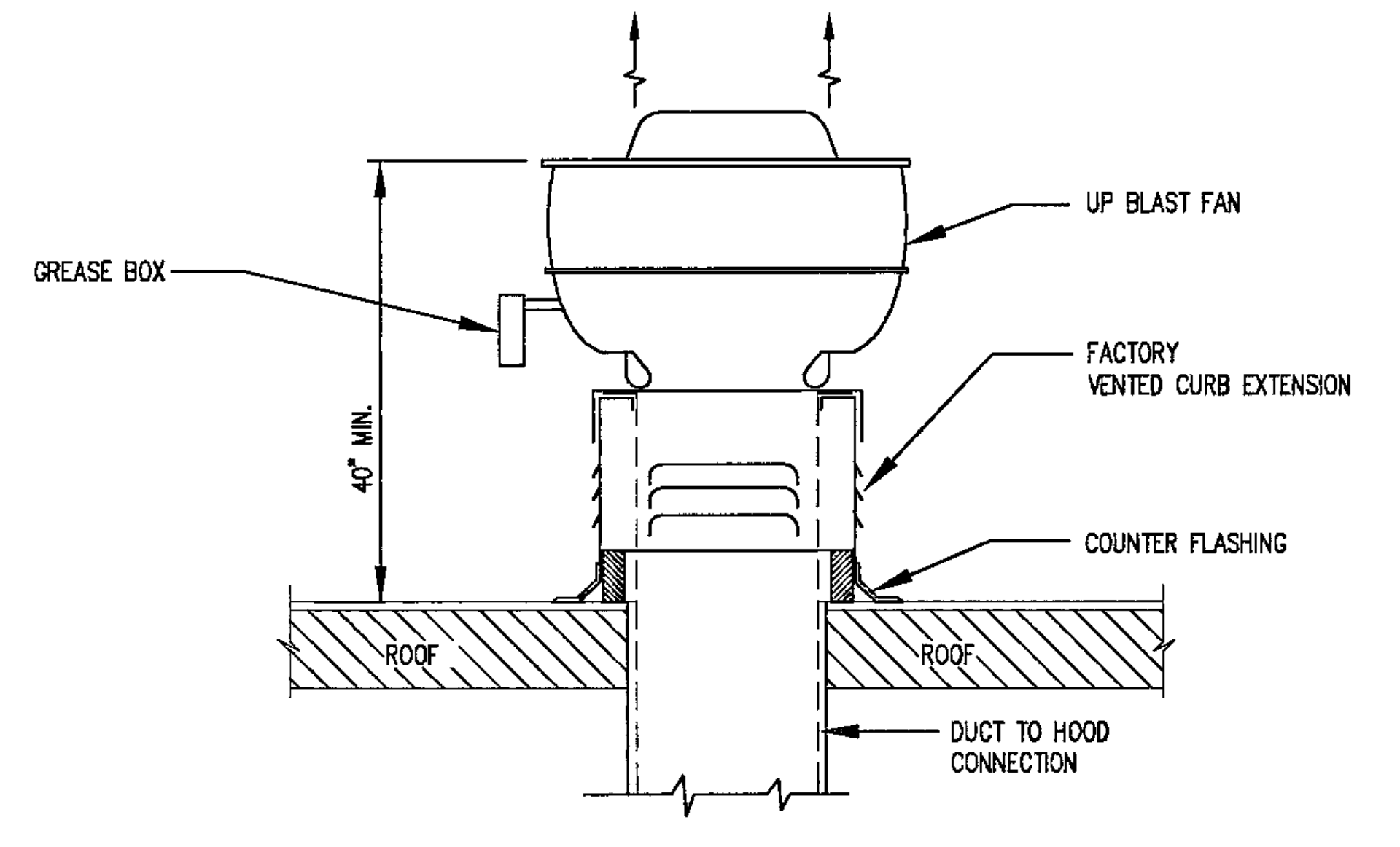
DO NOT connect Elbow Directy to Fan Inlet.

CAPTIVEAIRE

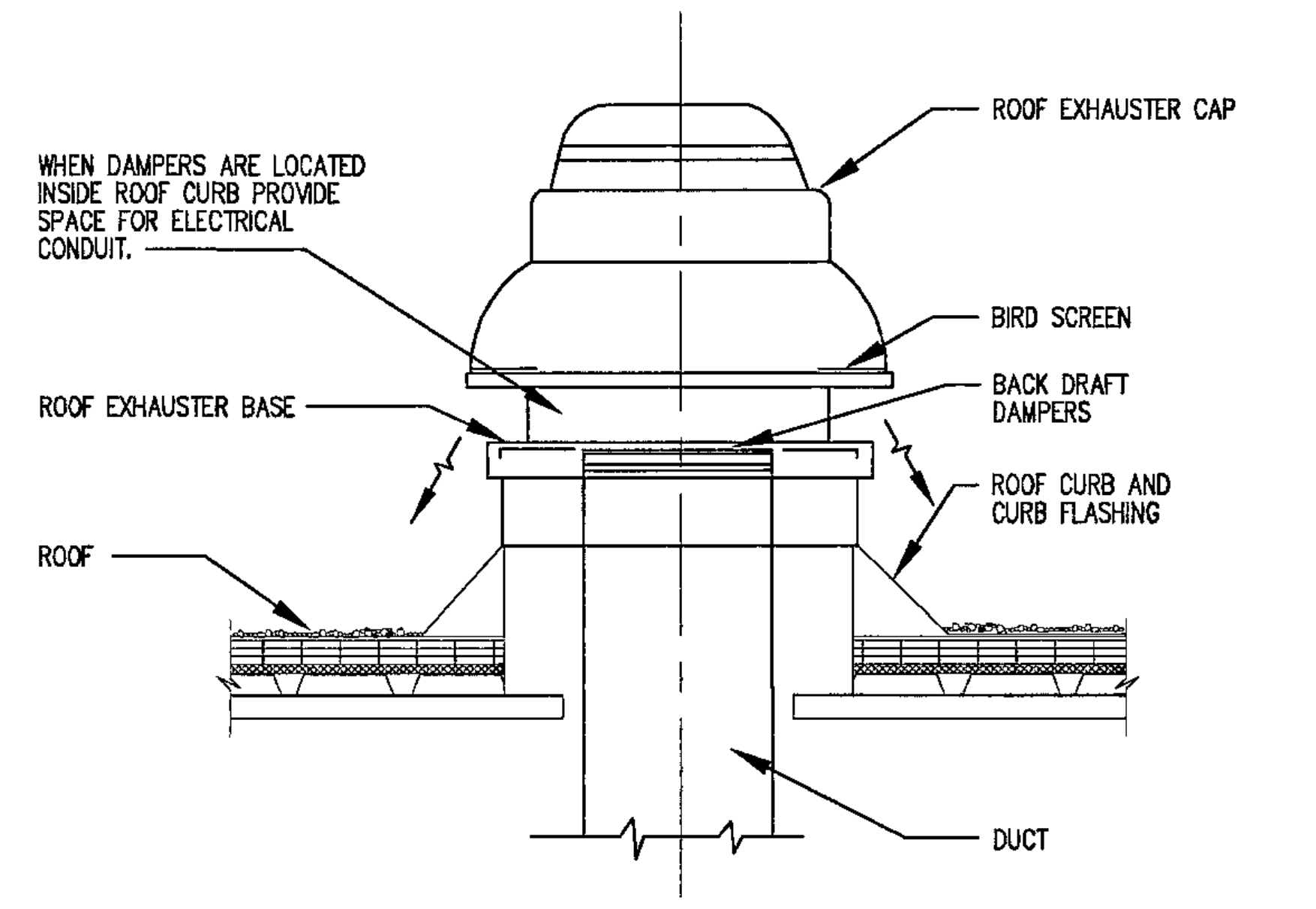
JOB Chuck E Cheese	
LOCATION type 2 prototype	
DATE 7/2/2007	JOB # 622546
DWG # Chuck2	DRAWN BY cjp-45
REV. 1.00	SCALE 3/4"

BIDDING NOTES

1. KITCHEN HOODS AND HOOD EXHAUST FANS ARE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR. BID IS TO INSTALL THE ENTIRE HOOD SYSTEM.
2. THE DETAILS ON THIS SHEET ARE FOR BIDDING INSTALLATION COORDINATION ONLY.
3. ALL HOOD DUCTWORK IS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR.
4. ANSUL FIREPROTECTION SYSTEM IS BY HVAC CONTRACTOR. FIRE PROTECTION SYSTEM IS TO ONLY BE INSTALLED IF PIZZA OVEN HOOD. IS REQUIRED TO BE A TYPE I HOOD BY LOCAL CODES.



01 UP-BLAST EXH FAN DETAIL
Scale: NO SCALE


ROOF EXHAUSTER CAP
WHEN DAMPERS ARE LOCATED INSIDE ROOF CURB PROVIDE SPACE FOR ELECTRICAL CONDUIT.
BIRD SCREEN
BACK DRAFT DAMPERS
ROOF EXHAUSTER BASE
ROOF CURB AND CURB FLASHING
ROOF
DUCT

02 ROOF MNTD EXH FAN DETAIL
Scale: NO SCALE

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

KITCHEN HOOD DETAILS

M1.4

LIGHT FIXTURE SCHEDULE / LAMP SCHEDULE

I.D.	SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	REF NOTES	VOLTS	REC	SUR	PEN	WAL	LAMP/ FIXT	WATTS/ LAMP	FIXTURE WATTS	LAMP TYPE
A1	⧅	COLUMBIA LIGHTING	JT824–332G–FSA12 –3EB8–120	2x4 RECESSED TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A4	▨	COLUMBIA LIGHTING	JT824–332G–FSPC4 –3EB8–120	SAME AS TYPE A1 EXCEPT WITH 3/4x3/4x1/2 SILVER STYRENE	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A3	☰	LIGHTOLIER	CFH2GPF332	2x4 RECESSED TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A5	⧅	COLUMBIA LIGHTING	SM24–332–FSA12 –3EB8–120	2x4 SURFACE TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A6	⧄	COLUMBIA LIGHTING	JT824–332G–FSPC4 –3EB8–120	SAME AS TYPE A4 EXCEPT 2x2	1	120	X	–	–	–	3	17	54	SYLVANIA F017/741 T8
B1	◪	COLUMBIA LIGHTING	JT824–332G–FSA12 –3EB8–120–EL	SAME AS TYPE A1 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8 / 90min BATTERY BACKUP
B4	■	COLUMBIA LIGHTING	JT824–332G–FSPC4 –3EB8–120–EL	SAME AS TYPE A4 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8 / 90min BATTERY BACKUP
B6	■	COLUMBIA LIGHTING	JT824–332G–FSPC4 –3EB8–120	SAME AS TYPE A6 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	17	54	SYLVANIA F017/741 T8 / 90min BATTERY BACKUP
C1	♀	JANMAR LIGHTING	1955E–2x32DTA–APAR38D–AB–LMP	SCONCE UP/DOWN CYLINDER BRONZE FIXTURE	1	120	–	–	–	X	2	32	68	LABELED WET LOCATION. CL OF PILASTER MOUNT 7'–0" AFF. LAMPS INCLUDED
C2	♀	GARDCO LIGHTING	600C–D–100HPS–120–360–DT–WP–RD	OUTDOOR FIXTURE WITH DIAMOND FACIA PLATE	1	120	–	–	–	X	1	100	116	LABELED WET LOCATION.
E1	▭	W.F. HARRIS LIGHTING	1200WP–*–242PLT –HPF–EM–PH	EXTERIOR WALL PACK ABOVE DOOR	1	120	–	–	–	X	2	42	84	LABELED WET LOCATION WITH 90min BATTERY– PHOTOCELL CONTROL
F4	▭	COLUMBIA LIGHTING	CS4–232–EB8–120	4'–0" STAIGHTLINER UTILITY CHANNEL	1	120	–	–	X	–	2	32	65	SYLVANIA F032/741 T8
G4	◎	OWNER FURNISHED	OWNER FURNISHED	PENDANT LIGHT	1	120	–	–	X	–	1	23	23	CENTER OF BOOTHS 6'–0" AFF TO B.O.F. OVER TABLES 5'–0" AFF TO B.O.F.
K1	⊳	LIGHTOLIER	9233BKCC	TRACK HEAD OR MONOPOINT	1	120	–	X	–	–	1	75	75	SYLVANIA 75PAR30/CAP/FL
LP–22	▭	LIGHTOLIER	LP–22	3'–0" WALL MOUNT	1	120	–	–	–	X	2	25	48	SYLVANIA F025/741 MOUNT @ 7'–0" CL OF FIXTURE
X1	⊗	PRESCOLITE	XT3R–EN–W	LED EXIT SIGN WITH 90MIN. BATTERY PACK	1,2	120	–	X	–	–	INCL.	L.E.D.	2.2	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X2	⇔	PRESCOLITE	EDS2	EMERGENCY LIGHT WITH 90MIN. BATTERY PACK SURFACE MOUNTED	1,2	120	–	X	–	–	INCL.	L.E.D.	12	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X3	▽REM	PRESCOLITE	EDS2– REMOTE HEAD	REMOTE HEAD WITH 90MIN. BATTERY PACK EXTERIOR MOUNTED	1,2	120	–	X	–	–	INCL.	L.E.D.	6	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
T5	▬	LIGHTOLIER	83W6BK/83B70SEBK	TRACK MOUNTED	1	120	–	X	–	–	INCL.	L.E.D.	70	SEE ARCH. PLANS FOR MOUNTING LOCATIONS. SYLV# MC70T6/U/G12/930PB

1. PROVIDE LAMP WITH FIXTURE
2. MINIMUM FULL OUTPUT 90min. BATTERY BACK–UP ILLUMINATION.

SHEET KEYED NOTES

⟨1⟩ WP J–BOX AT EXTERIOR WALL MOUNTED AT 23"–0" AFF. FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH SIGNAGE SUPPLIER.

⟨2⟩ 120X24V LED LIGHT XFMR IN WP ENCLOSURE FURNISHED BY SIGN VENDOR, INSTALLED BY E.C. PROVIDE WP SWITCH TO XFRM PER NEC. FIELD VERIFY ACTUAL LOCATION AND WIRING REQUIREMENTS WITH SIGN VENDOR PRIOR TO INSTALLATION AND CONSTRUCTION MANAGER ROUTE CIRCUIT THROUGH CONTACTOR.

⟨3⟩ J–BOX AT 11'4" A.F.F. ON INSIDE WALL WITH 5' WHIP TO OUTSIDE FOR CONNECTION TO AWNING LIGHTS. VERIFY EXACT LOCATION WITH SUPPLIER.

⟨4⟩ CIRCUIT SHALL BE CONTROLLED THRU CONTACTOR LC3 (ASCO #917 SERIES, NUMBER PER PANEL A SCHEDULE ON SHEET E3.1 PLUS 2 SPARES) ACTIVATED BY PHOTOCELL MOUNTED ON ROOF (FACING NORTH) AND DEACTIVATED BY TIME CLOCK (7–DAY/24HOUR/SKIP–A–DAY FEATURES). SEE DETAIL 11 ON SHEET E6.0 FOR FURTHER INFORMATION.

⟨5⟩ MANUAL OVERRIDE PUSHBUTTON or SWITCH MOUNTED NEXT TO FRONT ENTRANCE. LABEL AS FOLLOWS: 'A' LIGHTING OVERRIDE–MAINTENANCE

⟨6⟩ INSTALL FIXTURES AND SWITCH (PROVIDED BY OTHERS) IN WALK–IN BOX. THIS CONTRACTOR SHALL FURNISH AND INSTALL LAMPS AS REQUIRED.

⟨7⟩ E.C. TO PROVIDE EMERGENCY/EXIT/NL CIRCUIT AS FOLLOWS:
KITCHEN AND RESTROOM AREAS A–39.
SKILLS AND DINNING AREAS A–41.
CONNECT A HEAD OF LOCAL SWITCHING.

⟨8⟩ LOCATION OF NEW LIGHTING CONTROLS IN COMPLIANCE WITH ENERGY CODE.

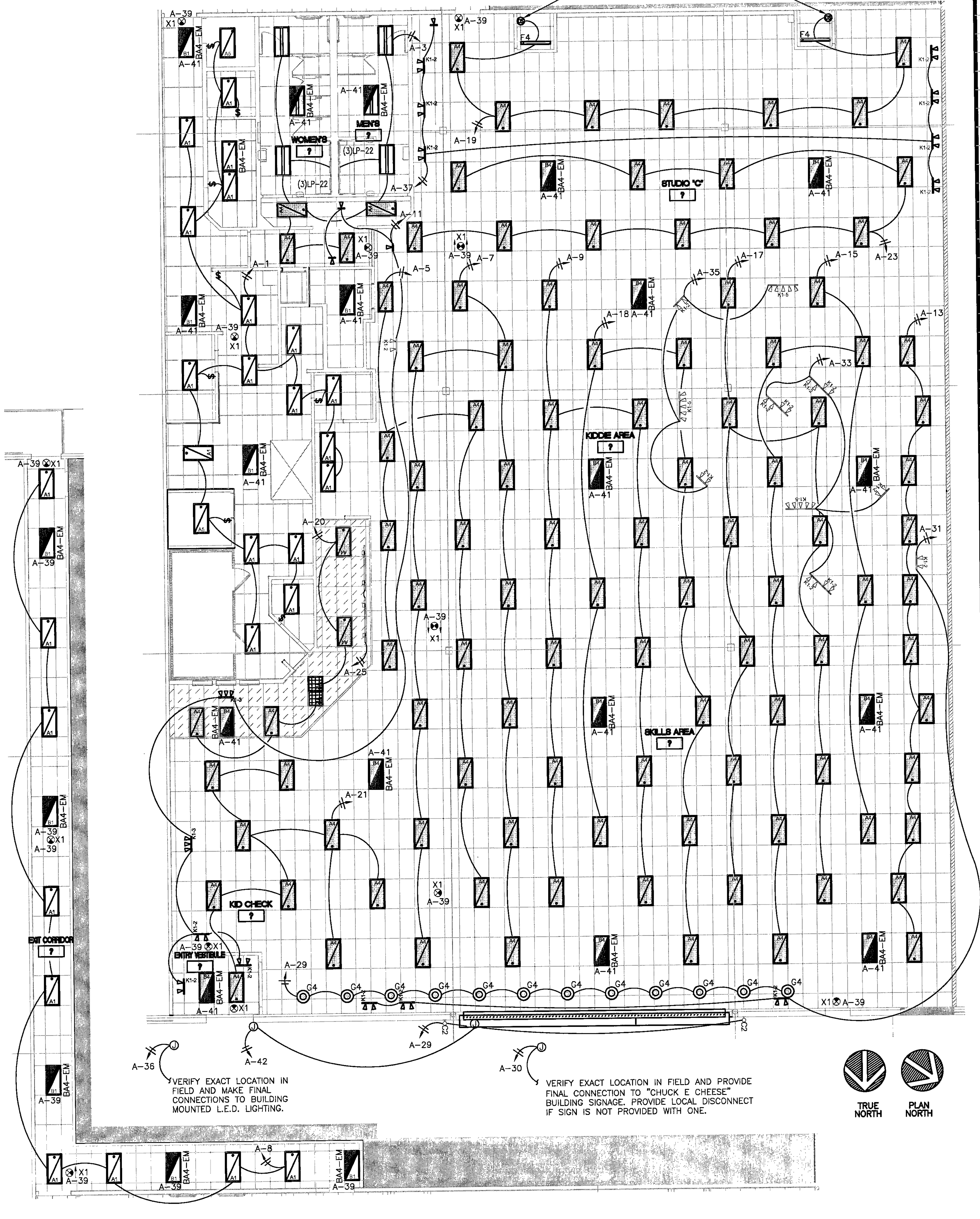
⟨9⟩ ALL WIRING AND TRANSFORMER POWER IS TO BE RUN UP IN WALL TO EXTERIOR LED LIGHTS.

CONTRACTOR'S NOTES

1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE, TO THE TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.
2. ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.
3. REFER TO SHEET E6.0, FOR FIRE ALARM SCHEMATIC.

SHEET GENERAL NOTES

1. ONLY EQUIPMENT EQUIPPED WITH 'FACTORY–INSTALLED' CORDS SHALL BE PERMITTED TO BE CORD–AND–PLUG CONNECTED (NEC 400.7(A).
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
4. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
5. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
6. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH–IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
7. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
8. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
9. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
10. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL WIRES SHALL BE COPPER ONLY, THHN OR N.E.C. APPROVED EQUAL OR BETTER. ALL WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED ON N.E.C. 110–14C AND TABLE 310–16.
12. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER–PROOF TYPE CONCEALED FROM VIEW.
13. ALL WIRING PER N.E.C.–518, (ASSEMBLY).
14. ALL CONDUCTORS SHALL BE COLOR–CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
15. CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.
16. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
17. OUTLETS, SWITCHES, AND PLATES SHALL BE: A) STAINLESS AT FRP. B) GREY AT MARLITE. SAFETY RECEPTACLES, LEVITON 5262–SGG RECEPTACLES, 80703 EG PLATE. C) WHITE AT ALL OTHER AREAS. D) CEILING OUTLETS SHALL BE PAINTED TO MATCH CEILING COLOR.



VERIFY EXACT LOCATION IN FIELD AND MAKE FINAL CONNECTIONS TO BUILDING MOUNTED L.E.D. LIGHTING.

VERIFY EXACT LOCATION IN FIELD AND PROVIDE FINAL CONNECTION TO "CHUCK E CHEESE" BUILDING SIGNAGE. PROVIDE LOCAL DISCONNECT IF SIGN IS NOT PROVIDED WITH ONE.

1 FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

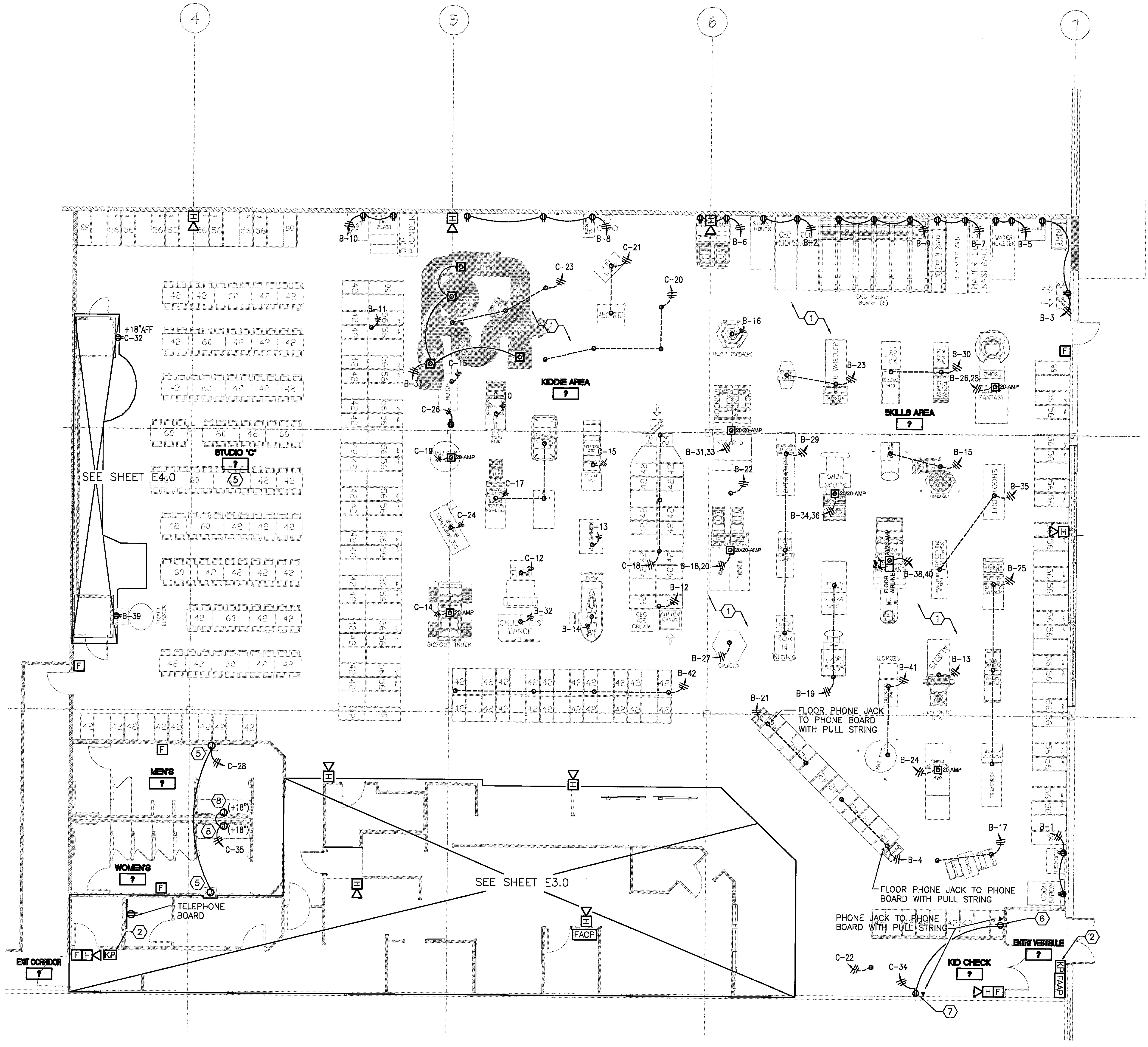
CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE:
04/07/10

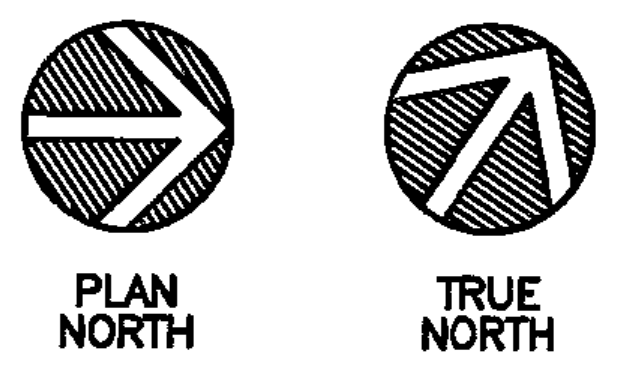
FLOOR PLAN - LIGHTING

E1.0



1 FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"



CONTRACTOR'S NOTES

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2. ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.
3. REFER TO SHEET E6.0, FOR FIRE ALARM SCHEMATIC.

SHEET KEYED NOTES

⟨1⟩ REFER TO SHEET K3.1 FOR FLOOR RECEPTACLE LOCATIONS.

⟨2⟩ OWNER FURNISHED SECURITY KEYPAD ALARM SYSTEM. FIELD VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER.

⟨3⟩ DOOR BELL PUSHBUTTON (EDWARDS #690) MOUNTED AT 48" AFF. TWO EACH WITH FACEPLATE (EDWARDS #149–1). REFER TO SHEET E3 FOR BELL LOCATIONS.

⟨4⟩ HAND DRYER 60HZ, 700 WATTS, 110 VOLTS. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION AND MOUNTING HEIGHTS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGH–IN.

⟨5⟩ SEE SHEET E4.0 "STUDIO–C" FOR ELECTRICAL IN THIS AREA.

⟨6⟩ PROVIDE RECESSED CLOCK OUTLET & DATA 8' AFF FOR SECURITY MONITOR.

⟨7⟩ PROVIDE DUPLEX OUTLET & DATA 14" ABOVE LIGHT BOX FOR SECURIY MONITOR.

⟨8⟩ FOR ELECTRIC FAUCET–VALVES, MAKE FINAL CONNECTIONS (IN CONDUIT) UNDER COUNTER.

TOKEN CARD LEGEND (IF APPLICABLE)

RK	RK – REGISTRATION KIOSK
FSK	FSK – FULL SERVICE KIOSK
CBS	CBS – CHECK BALANCE STATION
RS	RS – RELOAD STATION
TCR	TCR – TOKEN CARD LEGEND
⊕	MANAGER TERMINAL
—	DATA LINE

SHEET GENERAL NOTES

1. PROVIDE 20A DUPLEX RECEPTACLE FOR ALL DEDICATED RECEPTACLES.
2. PROVIDE GFCI PROTECTION FOR ALL 125V, 15–AMP AND 20–AMP RECEPTACLES IN KITCHEN.
3. ONLY EQUIPMENT EQUIPPED WITH 'FACTORY–INSTALLED' CORDS SHALL BE PERMITTED TO BE CORD–AND–PLUG CONNECTED (NEC 400.7(A).
4. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
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8. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH–IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
9. PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED FOR PROVIDING TELEPHONE SERVICE.
10. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CASH REGISTER WIRING AND CONNECTIONS. ALL REGISTER RECEPTACLES SHALL BE I.G. TYPE.
12. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
13. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
14. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
15. ALL WIRES SHALL BE COPPER ONLY, THHN OR N.E.C. APPROVED EQUAL OR BETTER. ALL WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED ON N.E.C. 110–14C AND TABLE 310–16.
16. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER–PROOF TYPE CONCEALED FROM VIEW.
17. ALL WIRING PER N.E.C.–518, (ASSEMBLY).
18. ELECTRICIAN TO VERIFY EXISTING UNDER–FLOOR UTILITIES PRIOR TO ANY PENETRATIONS. PROVIDE ADEQUATE SPACE FOR ROUTING CONDUIT(S).
19. FLOOR RECEPTACLES SHALL BE FLUSH MOUNTED, HUBBELL #B–2527 WITH BRASS COVER #S–3925 AND CARPET RING #S–3082. VERIFY WITH PROJECT MANAGER ANY FINAL CHANGE TO GAME LAYOUT PRIOR TO INSTALLING. USE 3/4" CONDUIT UNDER–SLAB FOR ALL FLOOR OUTLETS. SEE DETAIL, THIS SHEET.
20. ALL CONDUCTORS SHALL BE COLOR–CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
21. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMMUNICATION AND WIRING OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.
22. CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.

SYMBOLS + ABBREVIATIONS LEGEND

⦶	SINGLE CONVENIENCE OUTLET (SCO)	Sp	SWITCH AND PILOT LIGHT
⦶	DOUBLE CONVENIENCE OUTLET (DCO)	EL	ELEVATION A.F.F.
Ⓙ	JUNCTION BOX (JB)	A	AMPERES
⊕	QUADRUPLEX	V	VOLTS
⌀	MOTOR OUTLET	W	WATTS
Ⓢ	SOLENOID OR CONTROL CIRCUIT	PH	PHASE
⦶	SINGLE POWER OUTLET AS NOTED	AFF	ABOVE FINISHED FLOOR
⦶	CONVENIENCE OUTLET, 2–CIRCUIT, 120/208V–1PH, 3 WIRE (OR AS NOTED)	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
⊙	FLOOR OUTLET	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
⌖	LIGHT INDICATION	DFA	DOWN FROM ABOVE
Ⓜ	CONDUIT AS NOTED	SU	STUB UP AFF
▼	TELEPHONE OUTLET	WP	WEATHER PROOF
▬	PANELBOARD	BFC	BELOW FINISHED CEILING
▭	DISCONNECT SWITCH	L	STROBES
⊡	CEILING MOUNTED RECEPTACLE	▷H	COMBO HORN/STROBE
Sm	MOTOR SWITCH	FACP	FIRE ALARM CONTROL PANEL
⊡	FLOOR RECEPTACLE "POKE–THRU"	F	PULL STATION
—	CONCEALED CONDUIT (DASHED = UNDERFLOOR)	FAAP	FIRE ALARM ANNUNCIATOR PANEL
⫽	WIRING "HOME–RUN"	KP	SECURITY KEYPAD (BY OTHERS)

REGISTRATION SEAL

FREDERICK J. GOGLIA
No. 2946
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

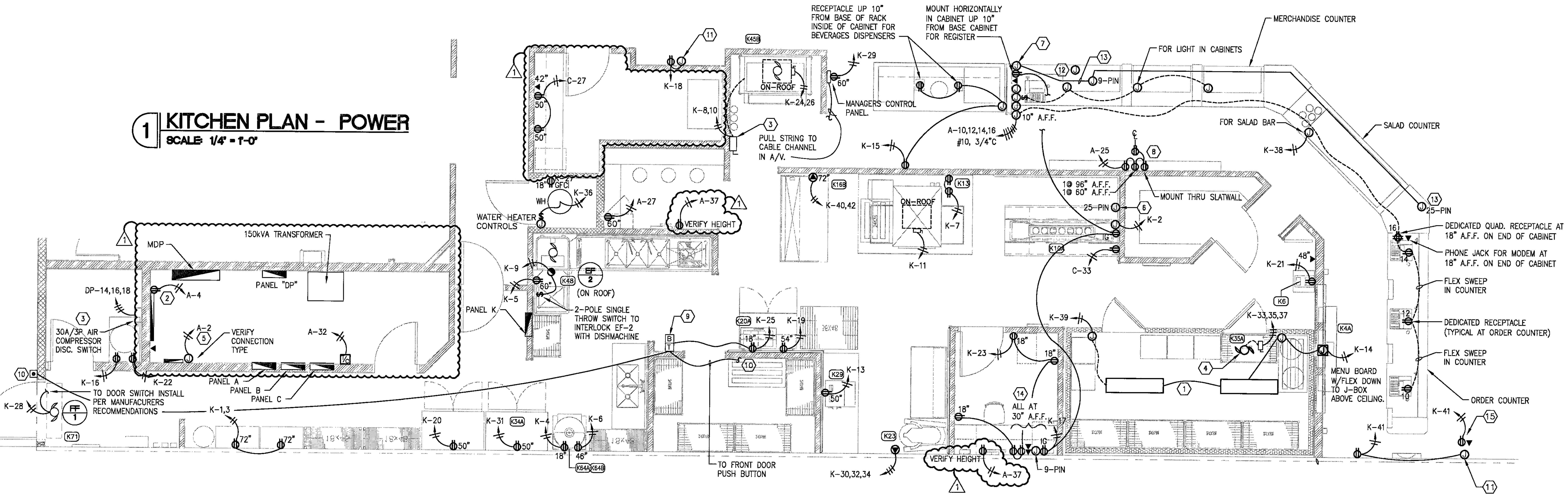
REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: SAH
CHECKED BY: SAH
ISSUE DATE:
04/07/10

FLOOR PLAN - POWER

E2.0

1 KITCHEN PLAN - POWER
SCALE: 1/4" = 1'-0"



KITCHEN EQUIPMENT SCHEDULE NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL EQUIPMENT CONNECTION SIZE AND LOCATION.
2. SEE MASTER EQUIPMENT SCHEDULE.
3. VERIFY LEFT OR RIGHT RECEPTACLE LOCATION ON S.S. CUT TABLE.

ELECTRICAL KITCHEN EQUIPMENT FIXTURE SCHEDULE

ITEM	QTY	EQUIPMENT	CATALOG NO.	VOLTAGE	WATTAGE	BKR. SIZE	WIRE SIZE	SYM	NEMA PLUG	MOUNTING HEIGHT
K6	1	COFFEE BREWER	N/A	120	2,040w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	24" A.F.F.
K10A,B	1	REFRIGERATED PIZZA PREP TABLE	N/A	120	1,200w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	72" A.F.F.
K13	1	DOUBLE-STACK PIZZA OVEN	N/A	120	600w (EACH)	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	18" & 46" A.F.F.
K16B	1	S.S. CUT TABLE	N/A	208	1,394w (EACH)	20/2	2#12, 1#12G IN 3/4"C	▼	5-20P	72" & 46" A.F.F.
K20A	1	REFRIGERATED COUNTER	N/A	120	792w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	18" & 54" A.F.F.
K23	1	DOUGH MIXER	N/A	208	3,098w	20/3	3#12, 1#12G IN 3/4"C	▼	L15-20P	VERIFY
K29	1	DOUGH ROLLER	N/A	120	1,500w	20/1	2#12, 1#12G IN 3/4"C	⏀	6-50P	50" A.F.F.
K34A	1	DOUBLE-DOOR REACH-IN FREEZER	N/A	120	1,584w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	50" A.F.F.
K34B	1	SINGLE-DOOR REACH-IN FREEZER	N/A	120	1,248w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	50" A.F.F.
K35A	1	WALK-IN COOLER/LIGHTS/EVAPORATOR	N/A	120	1,200w	20/1	2#12, 1#12G IN 3/4"C	Ⓙ	JBOX	VERIFY
K35A.1	1	WALK-IN COOLER CONDENSER	N/A	208	3,873w	20/3	3#12, 1#12G IN 3/4"C	⊐	DISC.	VERIFY
K45B	1	ICE MACHINE	N/A	208	5,845w	60/1	2#8, 1#10G IN 3/4"C	⊐	DISC.	VERIFY
K48	1	DISHWASHER SANITIZER	N/A	120	1,680w	20/1	2#12, 1#12G IN 3/4"C	⏀	L5-20P	60" A.F.F.
K64A	1	COTTON CANDY MACHINE	N/A	120	3,000w	30/1	2#10, 1#10G IN 3/4"C	▼	5-30P	36" A.F.F.
K64B	1	CANDY HOOD AND LIGHTS	N/A	120	600w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	110" A.F.F.
K71	1	AIR CURTAIN	N/A	120	1,920w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	90" A.F.F.

SYMBOLS + ABBREVIATIONS LEGEND

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—	CONCEALED CONDUIT (DASHED = UNDERFLOOR)	FAAP	FIRE ALARM ANNUNCIATOR PANEL
⫽	WIRING "HOME-RUN"	KP	SECURITY KEYPAD (BY OTHERS)

SHEET KEYED NOTES

1. E.C. TO FIELD PROVIDE CONDUCTORS, CONDUIT, BOXES AND FINAL CONNECTIONS FOR COOLER, TEMPERATURE CONTROLS , LIQUID LINE SOLENOID VALVES, DEFROST TIME CLOCK, LIGHT FIXTURES AND SWITCHES FURNISHED BY COOLER SUPPLIER. REFER TO KITCHEN SUPPLIER FOR FLOOR RECEPTACLE LOCATIONS.
2. GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL 2'X4'X3/4" PLYWOOD FOR TELEPHONE BOARD. INSTALLATION SHALL BE PER TELEPHONE COMPANY SPECIFICATIONS AND REQUIREMENTS. INSTALL AS CLOSE TO CEILING AS POSSIBLE. COORDINATE TELEPHONE POINT OF CONNECTION TO THIS TELEPHONE BOARD. PROVIDE CONNECTION BLOCK AS REQUIRED PER TELEPHONE CO. FOR NINE TEL. LINES.
3. PROVIDE DISCONNECT SWITCH TO EQUIPMENT PER MANUFACTURER SPECIFICATIONS.
4. 30-AMP, 240V, 3-PHASE FUSED DISCONNECT MOUNTED IN NEMA-3R ENCLOSURE ON WALK-IN COOLER FOR CONDENSER UNIT.
5. AT 8'-0" AFF FOR SECURITY SYSTEM. COORDINATE WITH OWNER AND INSTALLER.
6. RUN OWNER SUPPLIED KITCHEN PRINTER CABLE ABOVE CEILING FROM 30" AFF CENTER OF MANAGERS OFFICE DESK (9-PIN END) TO 6' AFF @ PIZZA MAKE TABLE (25-PIN END) COVER WITH SPLIT PLATE @ BOTH ENDS
7. PULL OWNER PROVIDED RJ-45 POS CABLE FROM END OF COUNTER TO ABOVE CEILING AND DOWN TO 30" AFF AT MANAGER OFFICE DESK.
8. REFER 6/A5.0 FOR HORIZONTAL MOUNTING LOCATIONS OF DUPLEX AT SLATWALL.
9. LOW-VOLTAGE TRANSFORMER AND BELL WITH TWO DIFFERENT TONES FOR FRONT AND BACK DELIVERIES. MOUNT AT +96" AFF ON WALL. MAKE ALL FINAL POWER AND CONTROL WIRING CONNECTIONS.
10. DOOR BELL PUSHBUTTON (EDWARDS #690) MOUNTED AT 48" AFF. TWO EACH WITH FACEPLATE (EDWARDS #149-1).
11. PROVIDE JUNCTION BOX W/WHIP TO MARKETING LIGHT BOX & CONVENIENCE OUTLET. (ABOVE CEILING W/FLEX DOWN TO MARKETING BOX)
12. PULL OWNER PROVIDED RJ-45 POS CABLE FROM J-BOX AT ORDER COUNTER TO J-BOX AT MERCHANDISE COUNTER.
13. MODEM CABLE WITH 9-PIN END TO MERCHANDISE COUNTER AND 25-PIN END TO ORDER COUNTER IN 2" CONDUIT FOR THE ENTIRE RUN
14. OWNER FURNISHED SECURITY KEYPAD ALARM SYSTEM. FIELD VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER.
15. SECURITY WALL OUTLET AND DATA OUTLET, FLUSH MOUNT 14" ABOVE MARKETING LIGHT BOX.

CONTRACTOR'S NOTES

1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE, TO THE TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.
2. ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.
3. REFER TO SHEET E6.0, FOR FIRE ALARM SCHEMATIC.

SHEET GENERAL NOTES

1. PROVIDE 20A DUPLEX RECEPTACLE FOR ALL DEDICATED RECEPTACLES.
2. PROVIDE GFCI PROTECTION FOR ALL 125V, 15-AMP AND 20-AMP RECEPTACLES IN KITCHEN.
3. ONLY EQUIPMENT EQUIPPED WITH 'FACTORY-INSTALLED' CORDS SHALL BE PERMITTED TO BE CORD-AND-PLUG CONNECTED (NEC 400.7(A).
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17. ALL WIRING PER N.E.C.-518, (ASSEMBLY).
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FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2800
www.arcv.com

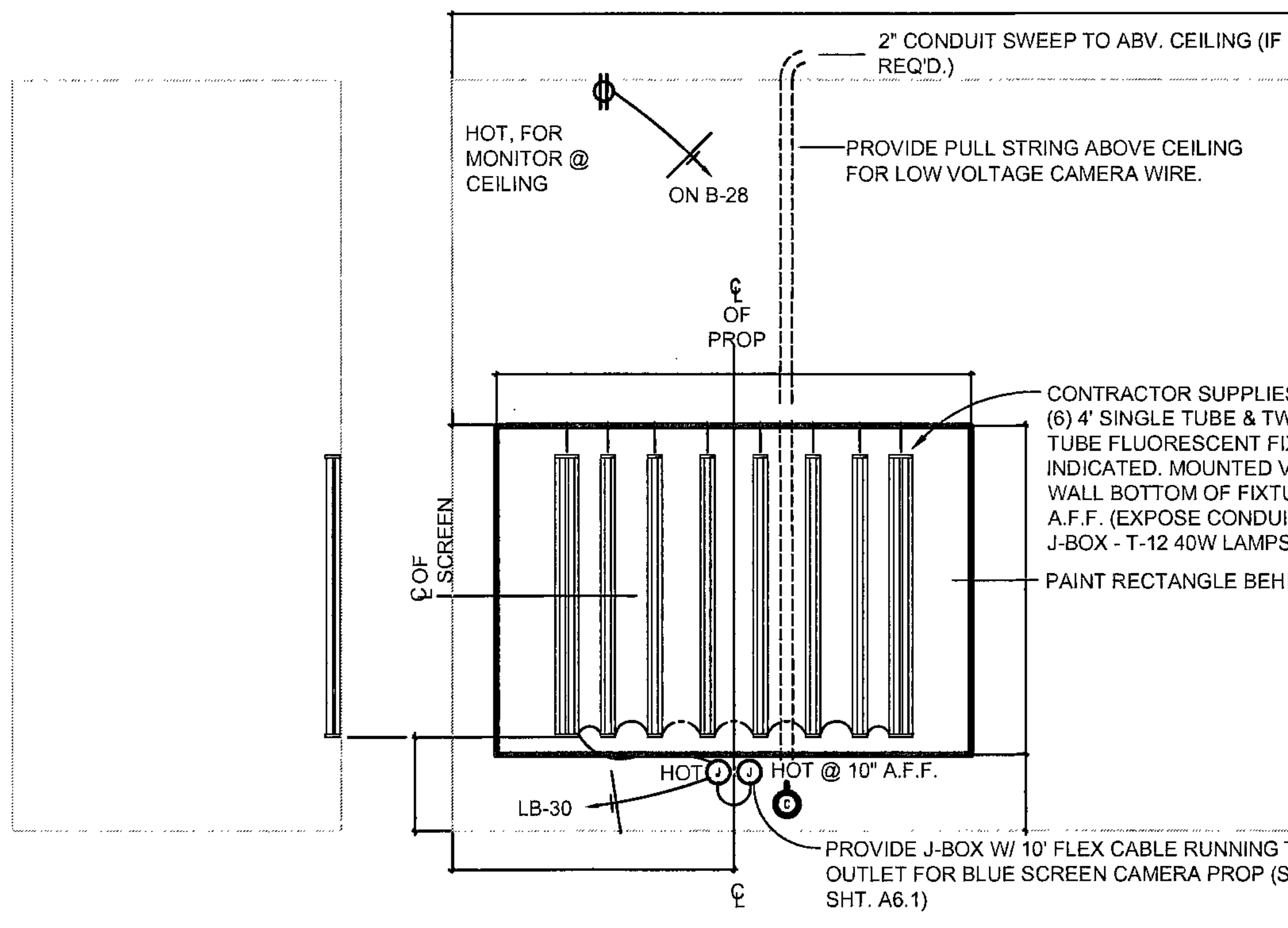
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
1	05/27/10	OWNER COMMENTS	SAH

PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE: 04/07/10

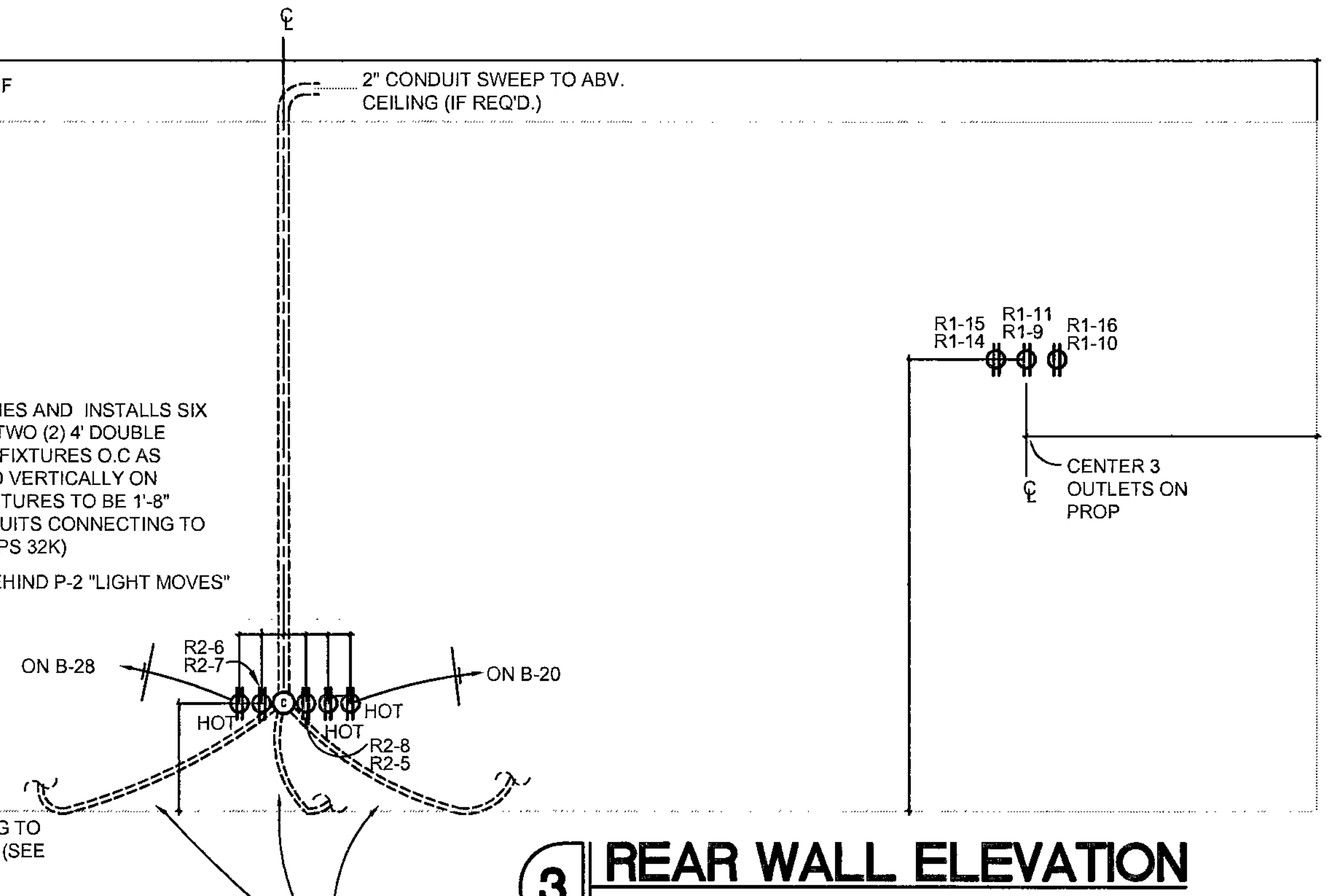
KITCHEN PLAN - POWER

E3.0


2" CONDUIT SWEEP TO ABV. CEILING (IF REQ'D.)
HOT, FOR MONITOR @ CEILING
ON B-28
PROVIDE PULL STRING ABOVE CEILING FOR LOW VOLTAGE CAMERA WIRE.
℄ OF PROP
℄ OF SCREEN
CONTRACTOR SUPPLIES AND INSTALLS SIX (6) 4' SINGLE TUBE & TWO (2) 4' DOUBLE TUBE FLUORESCENT FIXTURES O.C AS INDICATED. MOUNTED VERTICALLY ON WALL BOTTOM OF FIXTURES TO BE 1'-8" A.F.F. (EXPOSE CONDUITS CONNECTING TO J-BOX - T-12 40W LAMPS 32K)
PAINT RECTANGLE BEHIND P-2 "LIGHT MOVES"
HOT
J
J
HOT @ 10" A.F.F.
C
LB-30
PROVIDE J-BOX W/ 10' FLEX CABLE RUNNING TO OUTLET FOR BLUE SCREEN CAMERA PROP (SEE SHT. A6.1)
℄

2 LEFT WALL

SCALE: N.T.S.



3 REAR WALL ELEVATION

SCALE: N.T.S.

WIRING SCHEDULE

PANEL	CIRCUIT	RELAY	LOAD
PB-1	CIRCUIT B-32 (1/20) 20 AMP BREAKER	R1-1	CEC RED FLOODS (2)
		R1-2	CEC GREEN FLOODS (2)
		R1-3	CEC BLUE FLOODS (2)
		R1-4	CEC AMBER FLOODS (2)
		R1-5	STROBE ON CEC STAGE
		R1-6	SPARE
		R1-7	SPARE
		R1-8	SPARE
	CIRCUIT B-34 (1/20) 20 AMP BREAKER	R1-9	NEON CLOCK
		R1-10	SPARE
		R1-11	SPARE
		R1-12	SPARE
		R1-13	SPARE
		R1-14	CHUCK'S BACKDROP 1
		R1-15	CHUCK'S BACKDROP 2
		R1-16	CHUCK'S BACKDROP 3
PB-2	CIRCUIT B-36 (1/20) 20 AMP BREAKER	R2-1	SPARE
		R2-2	SPARE
		R2-3	ON AIR SIGN
		R2-4	APPLAUSE SIGN
		R2-5	MONITOR ROPE LIGHT
		R2-6	MONITOR ROPE LIGHT RED/YELLOW
		R2-7	MONITOR ROPE LIGHT BLUE
		R2-8	MONITOR ROPE LIGHT PURPLE/GREEN
	CIRCUIT B-38 (1/20) 20 AMP BREAKER	R2-9	SPARE
		R2-10	GEMINI/WARP (2)
		R2-11	CEC SPOT
		R2-12	SPARE
		R2-13	LIVE SPOT
		R2-14	AMBER ROOM FLOODS (1)
		R2-15	PINK ROOM FLOODS (2)
		R2-16	BLUE ROOM FLOODS (3)

NOTES:

A. RELAY CABINET "PB" SHALL BE FURNISHED BY OWNER, INSTALLED AND WIRED BY CONTRACTOR. LOW VOLTAGE CONNECTION BY OWNER.

B. CIRCUIT ROUTING IS DIAGRAMMATIC ONLY. EACH RECEPTACLE AND EACH HALF OF THE SPLIT RECEPTACLE SHALL HAVE TWO WIRES. HOT AND NEUTRAL BACK TO RELAY CABINET "PB".

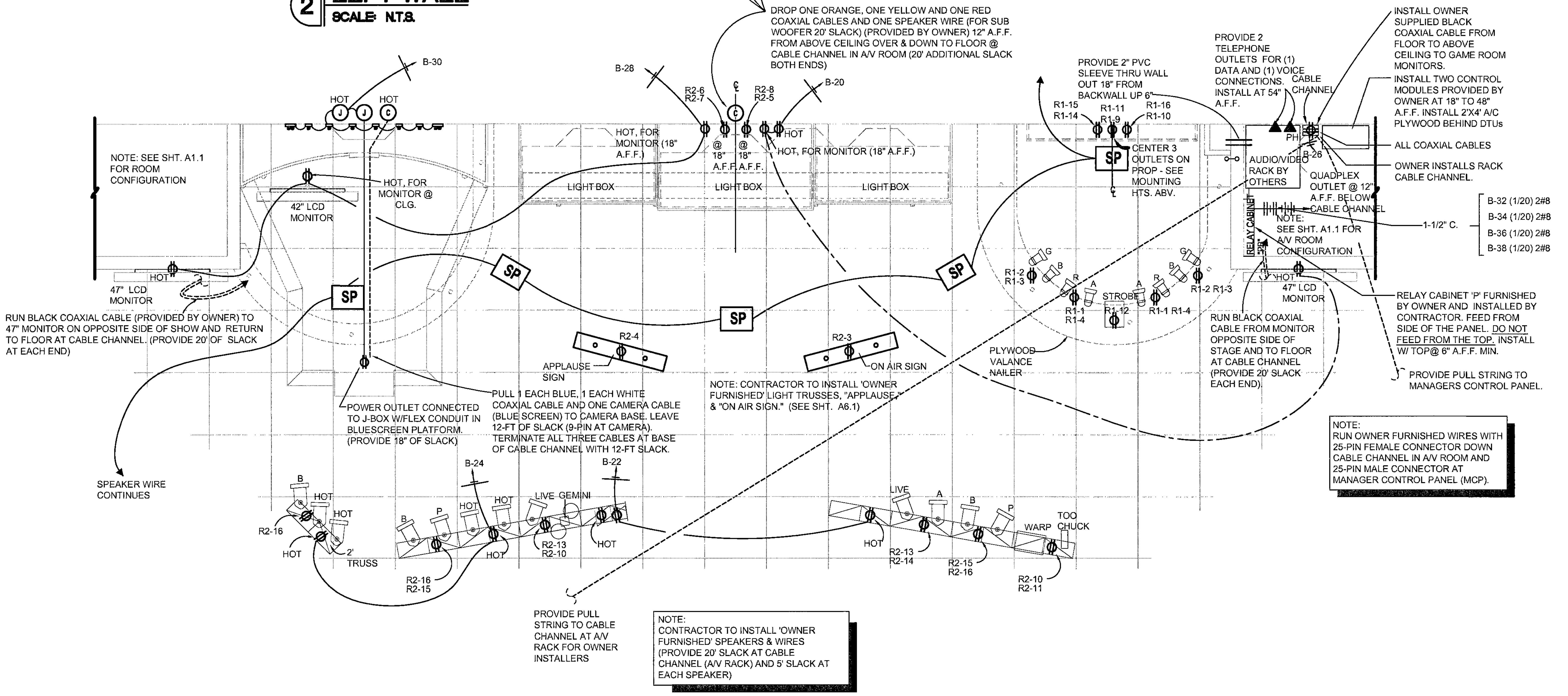
C. ALL WIRING SHALL BE CAREFULLY MARKED AT EACH END.

D. USE #12 AWG CONDUCTORS IN 3/4" CONDUIT

E. ALL NUMBERED OUTLETS ARE CONTROLLED BY RELAY CABINET "PB".

F. FOR WIRING FROM RELAY CABINET "PB". REFER TO "WIRING SCHEDULE DIAGRAM" FOR THE CONFIGURATION OF COMMON NEUTRALS.

G. EXCEPT AS OTHERWISE INDICATED, FOR BRANCH CIRCUITS FROM PANEL LB. A COMMON NEUTRAL MAY BE RUN FOR MULTIPLE CIRCUITS PER N.E.C.


DROP ONE ORANGE, ONE YELLOW AND ONE RED COAXIAL CABLES AND ONE SPEAKER WIRE (FOR SUB WOOFER 20' SLACK) (PROVIDED BY OWNER) 12" A.F.F. FROM ABOVE CEILING OVER & DOWN TO FLOOR @ CABLE CHANNEL IN A/V ROOM (20' ADDITIONAL SLACK BOTH ENDS)
B-30
HOT
J
J
HOT
C
NOTE: SEE SHT. A1.1 FOR ROOM CONFIGURATION
HOT, FOR MONITOR @ CLG.
42" LCD MONITOR
HOT
47" LCD MONITOR
RUN BLACK COAXIAL CABLE (PROVIDED BY OWNER) TO 47" MONITOR ON OPPOSITE SIDE OF SHOW AND RETURN TO FLOOR AT CABLE CHANNEL. (PROVIDE 20' OF SLACK AT EACH END)
SP
SP
SP
SP
SP
SPEAKER WIRE CONTINUES
POWER OUTLET CONNECTED TO J-BOX W/FLEX CONDUIT IN BLUESCREEN PLATFORM. (PROVIDE 18" OF SLACK)
PULL 1 EACH BLUE, 1 EACH WHITE COAXIAL CABLE AND ONE CAMERA CABLE (BLUE SCREEN) TO CAMERA BASE. LEAVE 12-FT OF SLACK (9-PIN AT CAMERA). TERMINATE ALL THREE CABLES AT BASE OF CABLE CHANNEL WITH 12-FT SLACK.
B-28
R2-6
R2-7
℄
C
R2-8
R2-5
B-20
HOT, FOR MONITOR (18" A.F.F.)
@ 18" A.F.F.
@ 18" A.F.F.
HOT
HOT, FOR MONITOR (18" A.F.F.)
LIGHT BOX
LIGHT BOX
LIGHT BOX
R2-4
APPLAUSE SIGN
R2-3
ON AIR SIGN
NOTE: CONTRACTOR TO INSTALL 'OWNER FURNISHED' LIGHT TRUSSES, "APPLAUSE," & "ON AIR SIGN." (SEE SHT. A6.1)
PROVIDE 2" PVC SLEEVE THRU WALL OUT 18" FROM BACKWALL UP 6"
R1-15
R1-14
R1-11
R1-9
R1-16
R1-10
CENTER 3 OUTLETS ON PROP - SEE MOUNTING HTS. ABV.
PROVIDE 2 TELEPHONE OUTLETS FOR (1) DATA AND (1) VOICE CONNECTIONS. INSTALL AT 54" A.F.F.
CABLE CHANNEL
PH
B-26
AUDIO/VIDEO RACK BY OTHERS
QUADPLEX OUTLET @ 12" A.F.F. BELOW CABLE CHANNEL
INSTALL OWNER SUPPLIED BLACK COAXIAL CABLE FROM FLOOR TO ABOVE CEILING TO GAME ROOM MONITORS.
INSTALL TWO CONTROL MODULES PROVIDED BY OWNER AT 18" TO 48" A.F.F. INSTALL 2'X4' A/C PLYWOOD BEHIND DTUs
ALL COAXIAL CABLES
OWNER INSTALLS RACK CABLE CHANNEL.
RELAY CABINET "PB"
NOTE: SEE SHT. A1.1 FOR A/V ROOM CONFIGURATION
1-1/2" C.
B-32 (1/20) 2#8
B-34 (1/20) 2#8
B-36 (1/20) 2#8
B-38 (1/20) 2#8
HOT
47" LCD MONITOR
RELAY CABINET 'P' FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. FEED FROM SIDE OF THE PANEL. DO NOT FEED FROM THE TOP. INSTALL W/ TOP@ 6" A.F.F. MIN.
PROVIDE PULL STRING TO MANAGERS CONTROL PANEL.
RUN BLACK COAXIAL CABLE FROM MONITOR OPPOSITE SIDE OF STAGE AND TO FLOOR AT CABLE CHANNEL (PROVIDE 20' SLACK EACH END).
G
B
R
A
R1-2
R1-3
R1-1
R1-4
STROBE
R1-12
A
R
B
G
R1-2 R1-3
R1-1 R1-4
PLYWOOD VALANCE NAILER
B
HOT
HOT
R2-16
HOT
2' TRUSS
B
P
HOT
HOT
B-24
LIVE
GEMINI
B-22
R2-16
R2-15
HOT
R2-13
R2-10
HOT
LIVE
A
B
P
WARP
TOO CHUCK
HOT
R2-13
R2-14
R2-15
R2-16
R2-10
R2-11
PROVIDE PULL STRING TO CABLE CHANNEL AT A/V RACK FOR OWNER INSTALLERS

NOTE:
RUN OWNER FURNISHED WIRES WITH 25-PIN FEMALE CONNECTOR DOWN CABLE CHANNEL IN A/V ROOM AND 25-PIN MALE CONNECTOR AT MANAGER CONTROL PANEL (MCP).

NOTE:
CONTRACTOR TO INSTALL 'OWNER FURNISHED' SPEAKERS & WIRES (PROVIDE 20' SLACK AT CABLE CHANNEL (A/V RACK) AND 5' SLACK AT EACH SPEAKER)

1 STUDIO 'C' 2000 PLAN - ELECTRICAL

SCALE: 3/8" = 1'-0"

Ⓐ FOR WIRING FROM RELAY CABINET "P". REFER TO "WIRING SCHEDULE DIAGRAM" FOR THE CONFIGURATION OF COMMON NEUTRALS.

Ⓑ EXCEPT AS OTHERWISE INDICATED, FOR BRANCH CIRCUITS FROM PANEL LB. A COMMON NEUTRAL MAY BE RUN FOR MULTIPLE CIRCUITS PER N.E.C.

Ⓒ CONTRACTOR TO INSTALL 'OWNER FURNISHED' SPEAKERS & WIRES (PROVIDE 20' SLACK AT CABLE CHANNEL (A/V RACK) AND 5' SLACK AT EACH SPEAKER)

Ⓓ RUN OWNER FURNISHED WIRES WITH 25-PIN FEMALE CONNECTOR DOWN CABLE CHANNEL IN A/V ROOM AND 25-PIN MALE CONNECTOR AT MANAGER CONTROL PANEL (MCP). REFER TO SHEET E2.1 FOR LOCATION.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

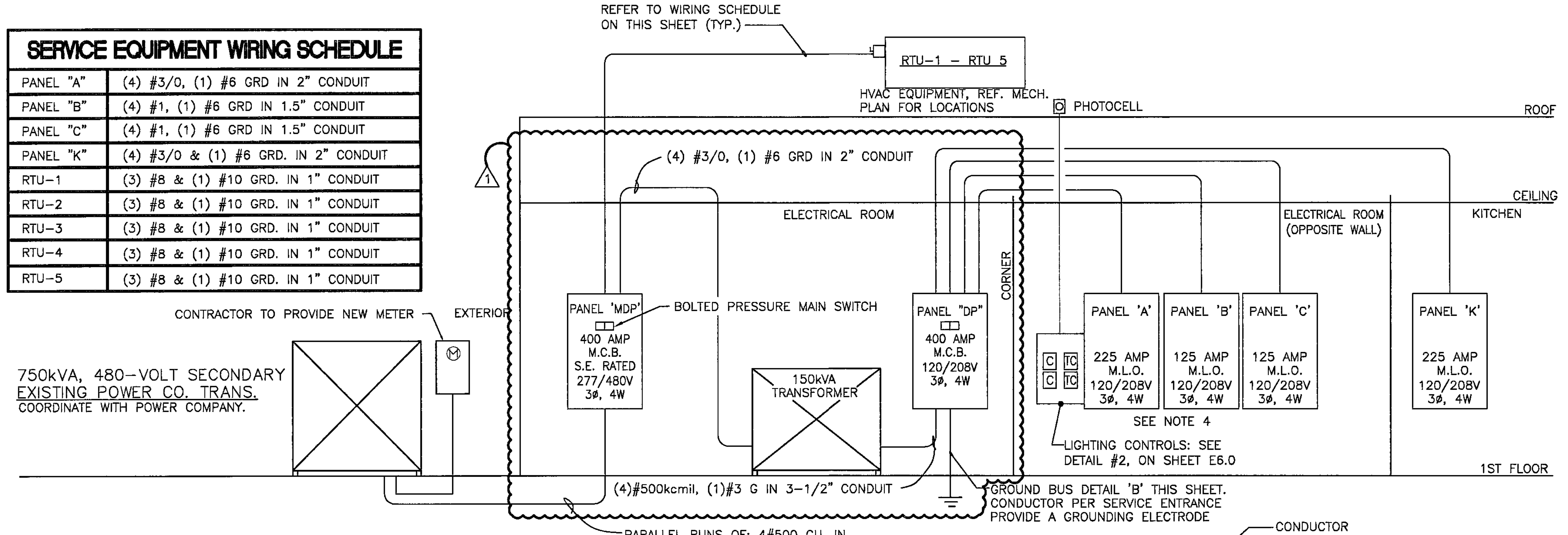
REV	DATE	DESCRIPTION	NAME

PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE: 04/07/10

STUDIO 'C' 2000 PLAN - ELECTRICAL

E4.0

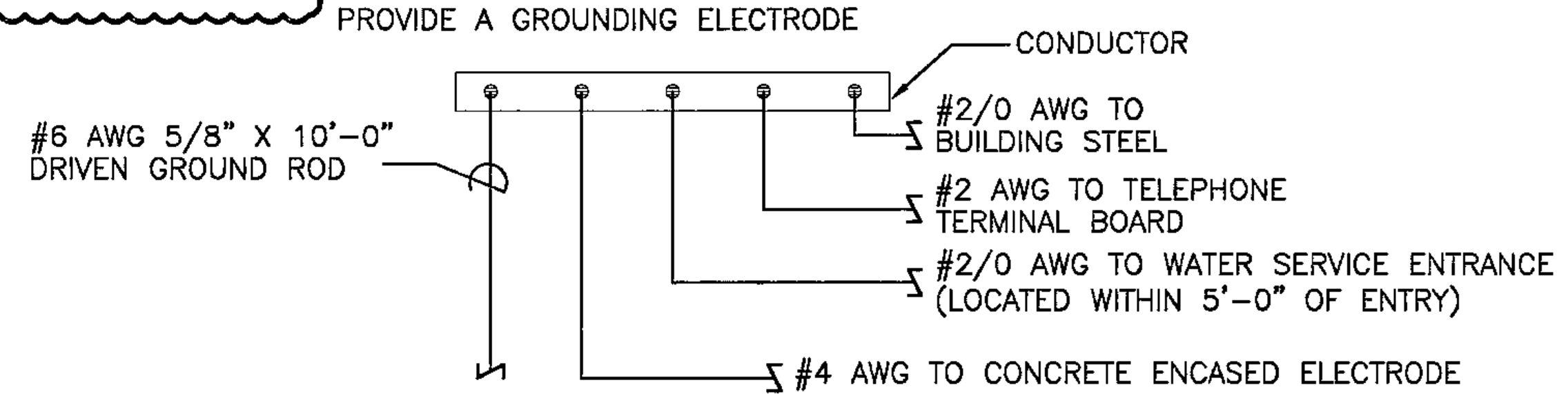
SERVICE EQUIPMENT WIRING SCHEDULE	
PANEL "A"	(4) #3/0, (1) #6 GRD IN 2" CONDUIT
PANEL "B"	(4) #1, (1) #6 GRD IN 1.5" CONDUIT
PANEL "C"	(4) #1, (1) #6 GRD IN 1.5" CONDUIT
PANEL "K"	(4) #3/0 & (1) #6 GRD. IN 2" CONDUIT
RTU-1	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-2	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-3	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-4	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-5	(3) #8 & (1) #10 GRD. IN 1" CONDUIT


REFER TO WIRING SCHEDULE ON THIS SHEET (TYP.)
RTU-1 – RTU 5
HVAC EQUIPMENT, REF. MECH. PLAN FOR LOCATIONS
PHOTOCELL
ROOF
(4) #3/0, (1) #6 GRD IN 2" CONDUIT
1
CEILING
ELECTRICAL ROOM
ELECTRICAL ROOM (OPPOSITE WALL)
KITCHEN
CORNER
CONTRACTOR TO PROVIDE NEW METER
EXTERIOR
PANEL 'MDP' 400 AMP M.C.B. S.E. RATED 277/480V 3Ø, 4W
BOLTED PRESSURE MAIN SWITCH
PANEL "DP" 400 AMP M.C.B. 120/208V 3Ø, 4W
150kVA TRANSFORMER
C TC
C TC
PANEL 'A' 225 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'B' 125 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'C' 125 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'K' 225 AMP M.L.O. 120/208V 3Ø, 4W
SEE NOTE 4
LIGHTING CONTROLS: SEE DETAIL #2, ON SHEET E6.0
750kVA, 480-VOLT SECONDARY EXISTING POWER CO. TRANS. COORDINATE WITH POWER COMPANY.
1ST FLOOR
(4)#500kcmil, (1)#3 G IN 3-1/2" CONDUIT
GROUND BUS DETAIL 'B' THIS SHEET. CONDUCTOR PER SERVICE ENTRANCE PROVIDE A GROUNDING ELECTRODE
PARALLEL RUNS OF: 4#500 CU. IN 3-1/2" CONDUIT

ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION OF POWER CO. METERING WITH POWER COMPANY PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR TO COMPLY WITH LOCAL POWER COMPANY'S ELECTRICAL SERVICE ENTRANCE REQUIREMENTS. SEE WEBSITE FOR FURTHER INFORMATION.

(A) BUILDING'S ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.


CONDUCTOR
#2/0 AWG TO BUILDING STEEL
#6 AWG 5/8" X 10'-0" DRIVEN GROUND ROD
#2 AWG TO TELEPHONE TERMINAL BOARD
#2/0 AWG TO WATER SERVICE ENTRANCE (LOCATED WITHIN 5'-0" OF ENTRY)
#4 AWG TO CONCRETE ENCASED ELECTRODE (FOUNDATION STEEL) (PER 250-50 OF THE NEC)

(B) SERVICE ENTRANCE GROUND BUS DETAIL

SCALE: N.T.S.

SHEET GENERAL NOTES

1. ALL BREAKERS SHALL BE THE BOLT-ON TYPE.
2. BRANCH BREAKERS OF 2P AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
4. ALL CIRCUIT BREAKERS USED TO SWITCH GAMES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY.
6. INCOMING SERVICE SHALL BE 277/480V, 3-PHASE, 4-WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING.
7. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
8. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
9. THE MINIMUM SIZE OF WIRE SHALL BE #12 AWG THWN COPPER. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
10. ALL CONDUITS PENETRATING THE COOLER BOX SHALL BE SEALED IN COMPLIANCE WITH NEC 300-7.
11. THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC AND TELEPHONE UTILITY CO. FOR INCOMING SERVICE REQUIRMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.
12. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.
13. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:
    - 13.1. TYPE MC CABLE WHERE PERMITED IN NEC 334-3 AND INSTALLED PER 334-10.
    - 13.2. METALLIC RACEWAYS: GREENFIELD, EMT, IMC, HEAVY-WALL CONDUIT.
    - 13.3. RIGID NON-METALLIC CONDUIT (COMPLY WITH NEC 347) (USE SHALL BE ONLY FOR OUTDOOR USE OR USE IN SLABS).

* ALL RACEWAYS SHALL HAVE A FULL SIZE GROUNDING CONDUCTOR INSTALLED. ROMEX, NONMETALLIC TUBING, AND BX CABLING SHALL NOT BE USED.

14. ALL RACEWAYS SHALL HAVE A FULL SIZE GROUNDING CONDUCTOR INSTALLED. ROMEX, NONMETALLIC TUBING, AND BX CABLING SHALL NOT BE USED.
15. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
16. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
17. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
18. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
19. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
20. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
21. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
22. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
23. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
24. ALL WIRES SHALL BE COPPER ONLY, THHN OR N.E.C. APPROVED EQUAL OR BETTER. ALL WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED ON N.E.C. 110-14C AND TABLE 310-16.
25. ALL WIRING PER N.E.C.-518, (ASSEMBLY).
26. ELECTRICIAN TO VERIFY EXISTING UNDER-FLOOR UTILITIES PRIOR TO ANY PENETRATIONS. PROVIDE ADEQUATE SPACE FOR ROUTING CONDUIT(S).
27. ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
28. CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.

PANELBOARD DESIGNATION **PANEL "MDP"** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
277/480 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **400** AMPERE BUS **400** AMPERE MAIN **MCB**
TOP FED ___ BOTTOM FED **X** FLUSH MTD ___ SURFACE MTD **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	RTU-1	7861	H	8	40	3	19573			3	50	8	H	11712	RTU-2	2
3		7861						19573						11712		4
5		7861							19573					11712		6
7	RTU-3	9614	H	8	45	3	19228			3	45	8	H	9614	RTU-4	8
9		9614						19228						9614		10
11		9614							19228					9614		12
13	RTU-5	9614	H	8	45	3	59709			3	200	3/0	–	50095	150kVA TRANSFORMER	14
15		9614						59428						49814		16
17		9614							64118					54501		18
19	SPACE						–								SPACE	20
21	SPACE							–							SPACE	22
23	SPACE								–						SPACE	24
							98510	98229	102919	SUB TOTALS						

CONNECTED LOAD **299,658**
DEMAND LOAD **299,658**

H = H.V.A.C.

PANELBOARD DESIGNATION **PANEL "DP"** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **400** AMPERE BUS **400** AMPERE MAIN **MCB**
TOP FED ___ BOTTOM FED **X** FLUSH MTD ___ SURFACE MTD **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	PANEL B	10720		1	125	3	23667			3	200	3/0		12947	PANEL A	2
3		9600						23773						14173		4
5		12100							25781					13681		6
7	PANEL C	7340		1	125	3	23828			3	200	3/0		16488	PANEL K	8
9		7280						23441						16161		10
11		9280							26120					16840		12
13	SPACE						2600			3	30	8	M	2600	AIR COMPRESSOR	14
15	SPACE							2600						2600		16
17	SPACE								2600					2600		18
19	SPACE						–								SPACE	20
21	SPACE							–							SPACE	22
23	SPACE								–						SPACE	24
							50095	49814	54501	SUB TOTALS						

CONNECTED LOAD **154,410**
DEMAND LOAD **299,658**

PANELBOARD DESIGNATION **PANEL C** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **125** AMPERE BUS **125** AMPERE MAIN **M.L.O.**
TOP FED ___ BOTTOM FED **X** FLUSH MTD ___ SURFACE MTD **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	RELAY CAB P	800	M	12	20	1	2000			1	20	12	R	1200	RELAY CAB P	2
3	RELAY CAB P	1000	M	12	20	1		2400		1	20	12	R	1400	RELAY CAB P	4
5	RELAY CAB P	1000	R	12	20	1			2400	1	20	12	R	1400	RELAY CAB P	6
7	RELAY CAB P	800	R	12	20	1	1600			1	20	12	M	800	RELAY CAB P	8
9	RELAY CAB P	1200	M	12	20	1		1600		1	20	12	M	400	NEW GAMES	10
11	RELAY CAB P	1400	M	12	20	1			1800	1	20	12	R	400	NEW GAMES	12
13	NEW GAMES	400	M	12	20	1	1200			1	20	12	M	800	NEW GAMES	14
15	NEW GAMES	400	M	12	20	1		800		1	20	12	M	400	NEW GAMES	16
17	NEW GAMES	1200	L	12	20	1			2400	1	20	12	H	1200	NEW GAMES	18
19	NEW GAMES	400	L	12	20	1	1600			1	20	12	M	1200	NEW GAMES	20
21	NEW GAMES	800	L	12	20	1		980		1	20	12	L	180	FLOOR RECEPTACLE	22
23	NEW GAMES	1200	L	12	20	1			1600	1	20	12	L	400	GAMES	24
25	KITCHEN PRINTER	400	R	12	20	1	580			1	20	12	L	180	GAMES	26
27	TECH RECEPTACLES	360	R	12	20	1		720		1	20	12	L	360	RR RECEPTACLES	28
29	OFFICE	180	L	12	20	1			1080	1	20	12	K	900	RTU RECEPTACLES	30
31	OFFICE	360	L	12	20	1	540			1	20	12	R	180	GENERAL RECEPTACLE	32
33	GENERAL RECEPTACLES	720	L	12	20	1		920		1	20	12	M	200	SECURITY MONITOR	34
35	ELECTRIC FAUCET VALVE	100	M	12	20	1			100	1	–	–	–	--	SPACE	36
37	OFFICE/EMPLOY. MONITORS	900	M	12	20	1	900			1	–	–	–	--	SPACE	38
39	SPARE	--	–	–	20	1		–		1	–	–	–	--	SPACE	40
41	SPARE	--	–	–	20	1			–	1	–	–	–	--	SPACE	42
							8240	7280	9280	SUB TOTALS						

1

TOTAL DEMAND LOAD **21,145**
TOTAL DEMAND AMPERES **59**

CONNECTED LOAD **24,800**

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
H = H.V.A.C.
K = KITCHEN

PANELBOARD DESIGNATION **PANEL A** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **225** AMPERE BUS **225** AMPERE MAIN **M.L.O.**
TOP FED **X** BOTTOM FED ___ FLUSH MTD **X** SURFACE MTD ___

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	KITCHEN LIGHTING	1536	L	12	20	1	2136			1	20	12	M	600	SECURITY SYSTEM	2
3	RR LIGHTING	768	L	12	20	1		1368		1	20	12	M	600	TELEPHONE	4
5	GENERAL LIGHTING	864	L	12	20	1			1404	1	20	12	R	540	GENERAL RECEPTACLES	6
7	GENERAL WORK LIGHTING	672	L	12	20	1	672			1	20	–	–	--	SPARE	8
9	GENERAL WORK LIGHTING	1056	L	12	20	1		1956		1	20	12	R	900	CASH REGISTER	10
11	GENERAL LIGHTING	550	L	12	20	1			1450	1	20	12	R	900	CASH REGISTER	12
13	GENERAL LIGHTING	1152	L	12	20	1	2052			1	20	12	R	900	CASH REGISTER	14
15	GENERAL LIGHTING	960	L	12	20	1		1860		1	20	12	R	900	CASH REGISTER	16
17	GENERAL LIGHTING	1056	L	12	20	1			1728	1	20	12	L	672	GENERAL LIGHTING	18
19	STUDIO C LIGHTING	768	L	12	20	1	1215			1	20	12	L	447	COUNTER LIGHTING	20
21	ENTRY LIGHTING	1122	L	12	20	1		2427		2	20	12	L	1305	PARKING LOT LIGHTING	22
23	GENERAL LIGHTING	1248	L	12	20	1			2553					1305		24
25	PRIZE BOARD	1200	L	12	20	1	2288			2	20	12	L	1088	PARKING LOT LIGHTING	26
27	TV/VCR	1092	M	12	20	1		2292						1088		28
29	PENDANT LIGHTING	276	L	12	20	1			1476	1	20	12	L	1200	SIGN LIGHTING	30
31	TRACK LIGHTING	800	L	12	20	1	1800			1	20	12	M	1000	TIME CLK AND CONTACT	32
33	TRACK LIGHTING	700	L	12	20	1		1900		1	20	12	L	1200	EXTERIOR BUILDING LTG	34
35	TRACK LIGHTING	950	L	12	20	1			2150	1	20	12	L	1200	L.E.D. LIGHTING	36
37	TRACK LIGHTING	720	R	12	20	1	1920			1	20	12	L	1200	SIGNAGE	38
39	EM LIGHTING	1650	L	12	20	1		2370		1	20	12	L	720	EXTERIOR BUILDING LTG.	40
41	EM/SECURITY LIGHTING	1720	L	12	20	1			2920	1	20	12	L	1200	AWNING	42
							12947	14173	13681	SUB TOTALS						

TOTAL DEMAND LOAD **48,963**
TOTAL DEMAND AMPERES **136**

CONNECTED LOAD **40,801**

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
H = H.V.A.C.
K = KITCHEN

PANELBOARD DESIGNATION **PANEL K** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **225** AMPERE BUS **225** AMPERE MAIN **M.L.O.**
TOP FED ___ BOTTOM FED **X** FLUSH MTD ___ SURFACE MTD **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	BAG-N-BOX	850	K	12	20	1	2050			1	20	12	K	1200	REF. CNTR. PIZZ #10A	2
3	BAG-N-BOX	850	K	12	20	1		3850		1	20	12	K	3000	COTTON CANDY #64A	4
5	DISHWASHER 48	1580	M	12	20	1			3580	1	20	12	K	2000	COTTON CANDY #64B	6
7	PIZZA OVEN #13 (2)	1200	K	12	20	1	4192			2	20	12	K	2922	ICE DISPENSER #45B	8
9	EF-2	667	M	12	20	1		3589		–	–	–	–	2922		10
11	EF-1	1840	M	12	20	1			2740	1	20	12	M	900	BANK CARD	12
13	DOUGH ROLLER #29	1500	K	12	20	1	2000			1	20	12	L	500	MENU BOARD	14
15	DRINK TOWER	1000	K	12	20	1		2200		1	20	12	M	1200	BLOW OFF VALVE TIMER	16
17	MANAGERS RECEPTACLE	720	K	12	20	1			1720	1	20	12	L	1000	MENU BOARD	18
19	REC ABOVE SAND. TABLE	180	R	12	20	1	1764			1	20	12	K	1584	DBL FREEZER	20
21	COFFEE BREWER	800	K	12	20	1		1520		1	20	12	M	720	AIR DRYER	22
23	MANAGER TABLE	1400	R	12	20	1			4198	2	20	12	K	2798	ICE CONDENSER #45A	24
25	SAND FRIG TABLE #20A	1032	K	12	20	1	3830			–	–	–	–	2798		26
27	UTILITY ROOM REC	180	R	12	20	1		980		1	20	12	M	800	FLY FAN FF-1	28
29	MANAGERS CONTROLLER	180	M	12	20	1			1212	3	20	12	K	1032	FOOD MIXER	30
31	DOUBLE FREEZER #34A	1584	K	12	20	1	2616			–	–	–	–	1032		32
33	WALK IN CLR EVAP LTS	1290	K	12	20	3		2322		–	–	–	–	1032		34
35		1290	–	–	–	–			1490	1	30	10	M	200	GAS WATER HEATER	36
37		1290	–	–	–	–	1690			1	30	10	K	400	SALAD BAR	38
39	WALK IN CLR EVAP LTS	1000	K	12	20	1		1700		2	20	10	K	700	PIZZA CUT TABLE #16B	40
41	MENU SPECIAL	1200	L	12	20	1			1900	–	–	–	–	700		42
							16488	16161	16840	SUB TOTALS						

TOTAL DEMAND LOAD **37,486**
TOTAL DEMAND AMPERES **104**

CONNECTED LOAD **49,489**

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
K = KITCHEN

PANELBOARD DESIGNATION **PANEL B** NEW INSTALL **X** EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS **3** PHASE **4** WIRE, SOLID NEUTRAL **125** AMPERE BUS **125** AMPERE MAIN **M.L.O.**
TOP FED ___ BOTTOM FED **X** FLUSH MTD ___ SURFACE MTD **X**

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	GAMES WALL	800	R	12	20	1	1600			1	20	12	R	800	GAMES WALL	2
3	GAMES WALL	800	R	12	20	1		1000		1	20	12	R	200	TOKEN MACHINE	4
5	GAMES WALL	800	R	12	20	1			1600	1	20	12	R	800	GAMES WALL	6
7	GAMES WALL	800	R	12	20	1	2000			1	20	12	R	1200	GAMES WALL	8
9	GAMES WALL	1200	R	12	20	1		2000		1	20	12	R	800	GAMES WALL	10
11	GAMES	400	R	12	20	1			1700	1	20	12	K	1300	ICE CREAM MACHINE	12
13	GAMES	400	R	12	20	1	800			1	20	12	R	400	GAMES	14
15	GAMES	800	R	12	20	1		1200		1	20	12	R	400	GAMES	16
17	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	18
19	GAMES	800	R	12	20	1	1600			1	20	12	R	800	GAMES	20
21	TOKEN MACHINE	200	M	12	20	1		600		1	20	12	R	400	GAMES	22
23	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	24
25	GAMES	1200	R	12	20	1	2000			1	20	12	R	800	GAMES	26
27	GAMES	400	R	12	20	1		1200		1	20	12	R	800	GAMES	28
29	GAMES	1200	R	12	20	1			2000	1	20	12	R	800	GAMES	30
31	GAMES	800	R	12	20	1	1200			1	20	12	R	400	GAMES	32
33	GAMES	800	R	12	20	1		1600		1	20	12	R	800	GAMES	34
35	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	36
37	SKY CRAWL	720	R	12	20	1	1520			1	20	12	R	800	GAMES	38
39	BLUE SCREEN CAM	1200	M	12	20	1		2000		1	20	12	R	800	GAMES	40
41	GAMES	800	R	12	20	1			2000	1	20	12	R	1200	FLOOR RECEPTACLE	42
							10720	9600	12100	SUB TOTALS						

TOTAL DEMAND LOAD **24.710**
TOTAL DEMAND AMPERES **69**

CONNECTED LOAD **32,400**

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS

REGISTRATION SEAL

FREDERICK J. GOGLIA REGISTERED ARCHITECT No. 2985 ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

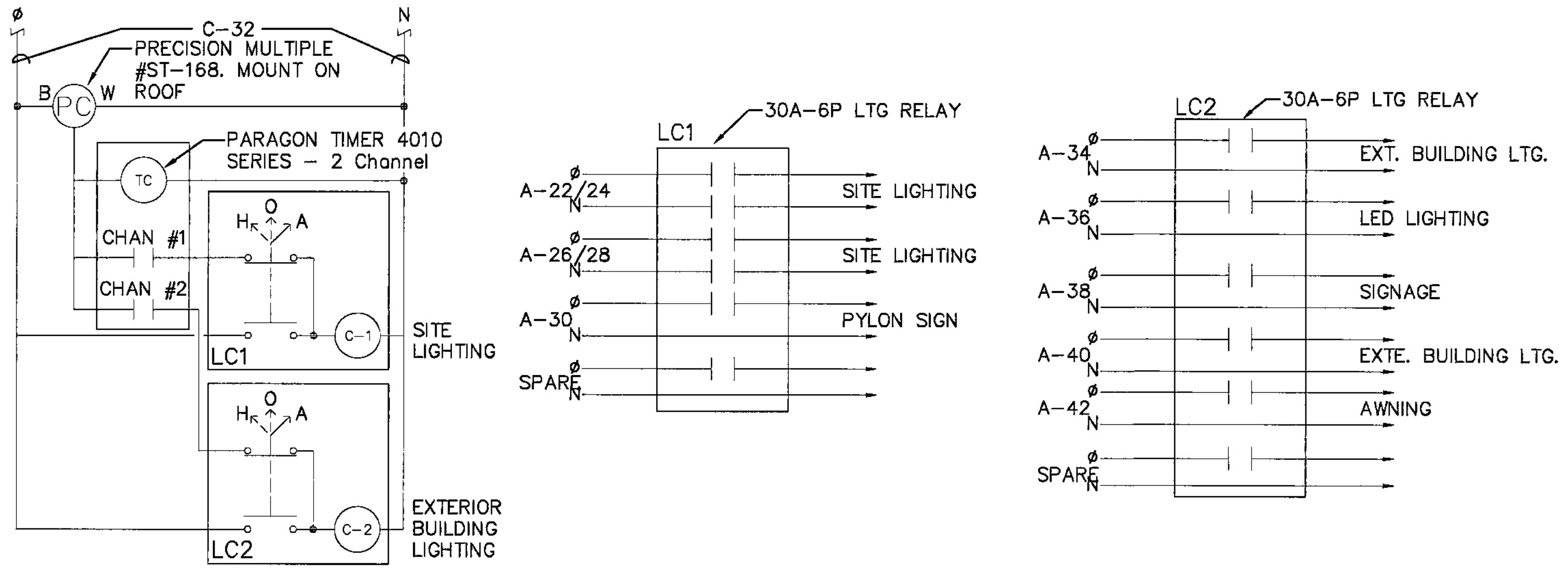
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
1	05/27/10	OWNER COMMENTS	SAH

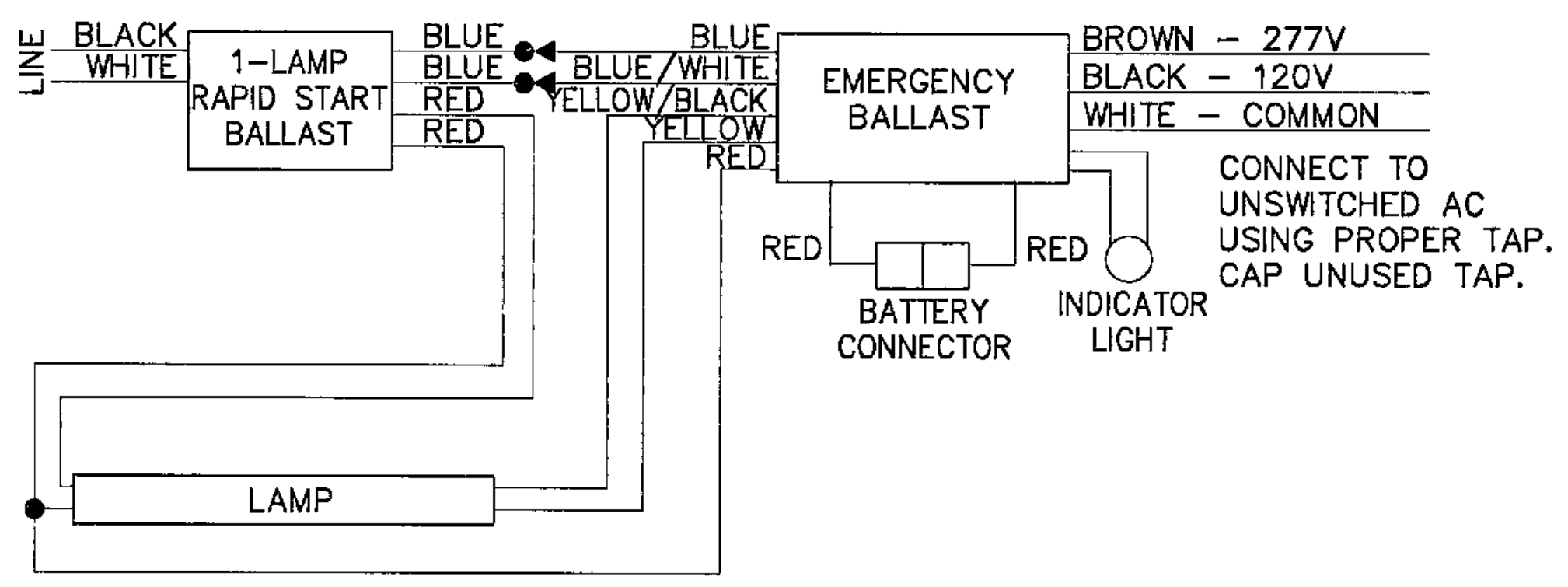
PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE: 04/07/10

ELECTRICAL SCHEDULES AND RISERS

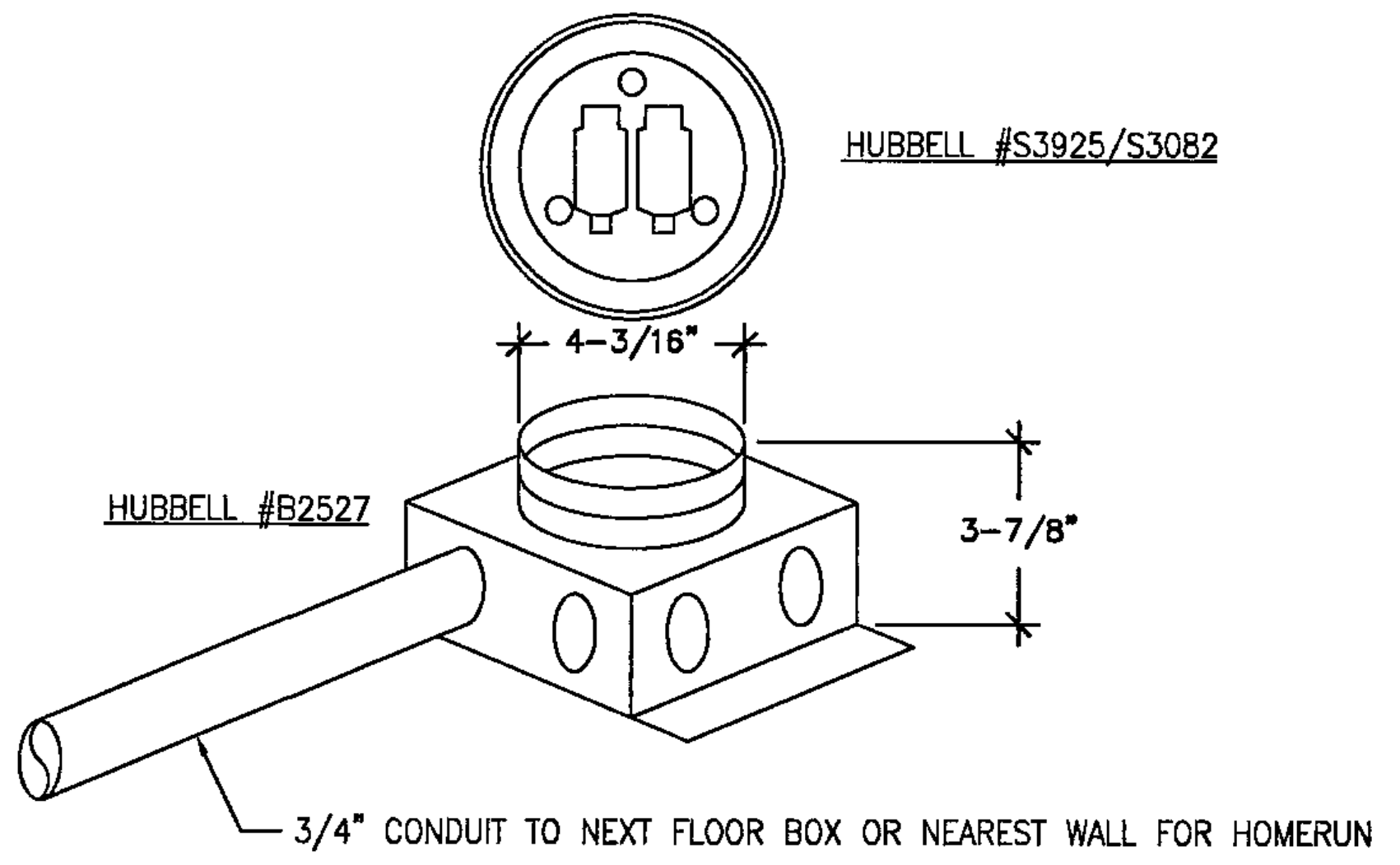
E5.0



1 EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE: N.T.S.

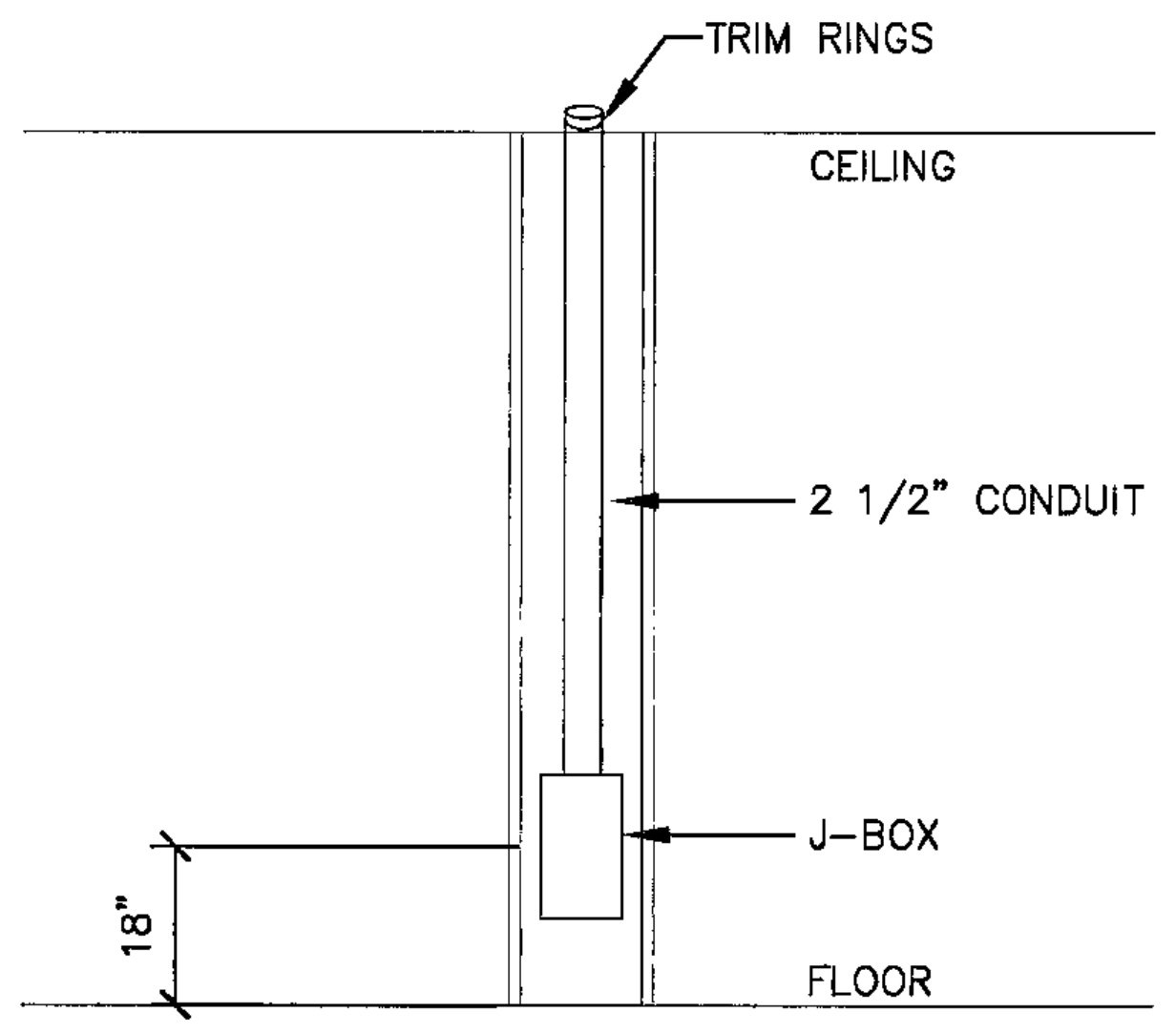


2 ONE (1) LAMP RAPID START BALLAST
SCALE: N.T.S.



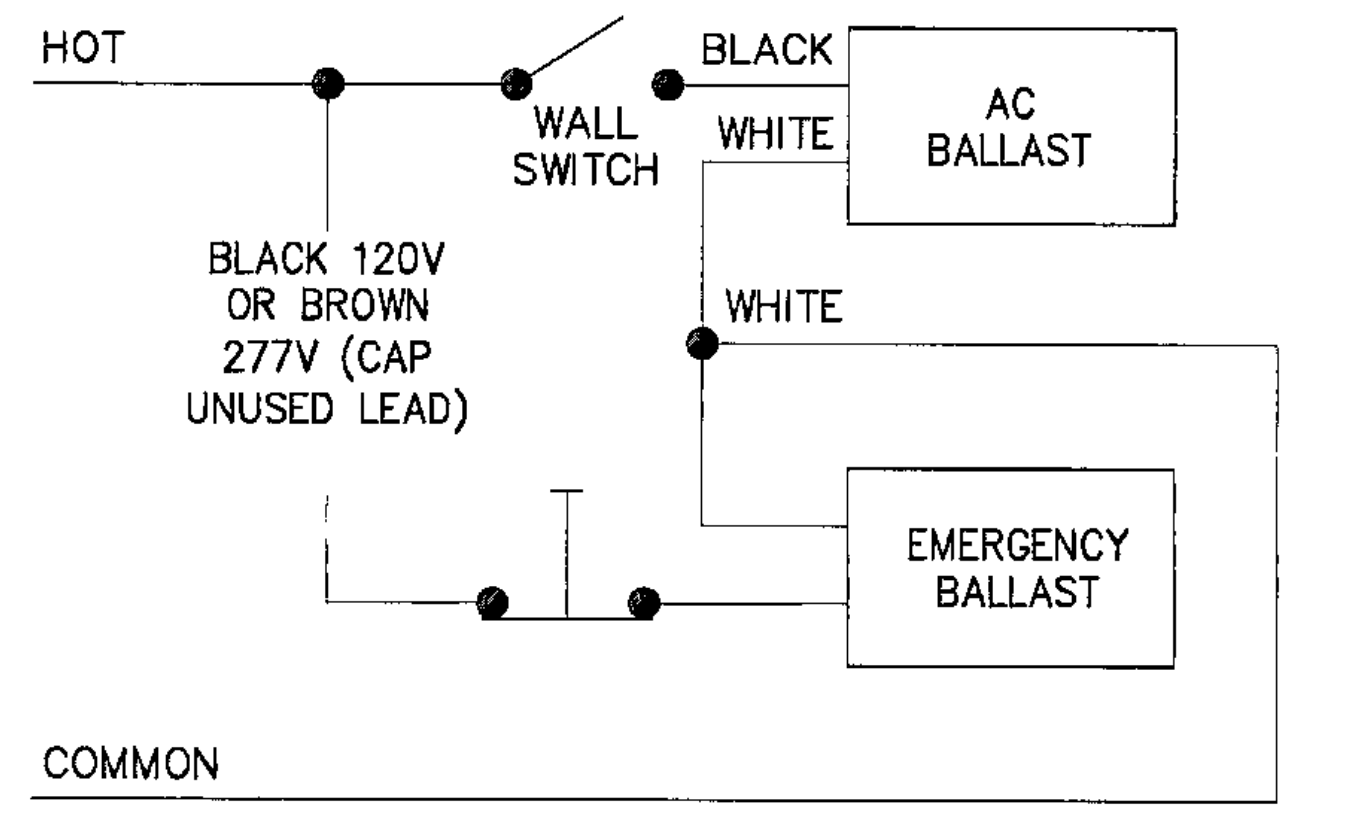
REFER TO MANUFACTURER TECHNICAL INSTALLATION FOR CONCRETE FLOORS

3 FLOOR OUTLET DETAIL
SCALE: N.T.S.

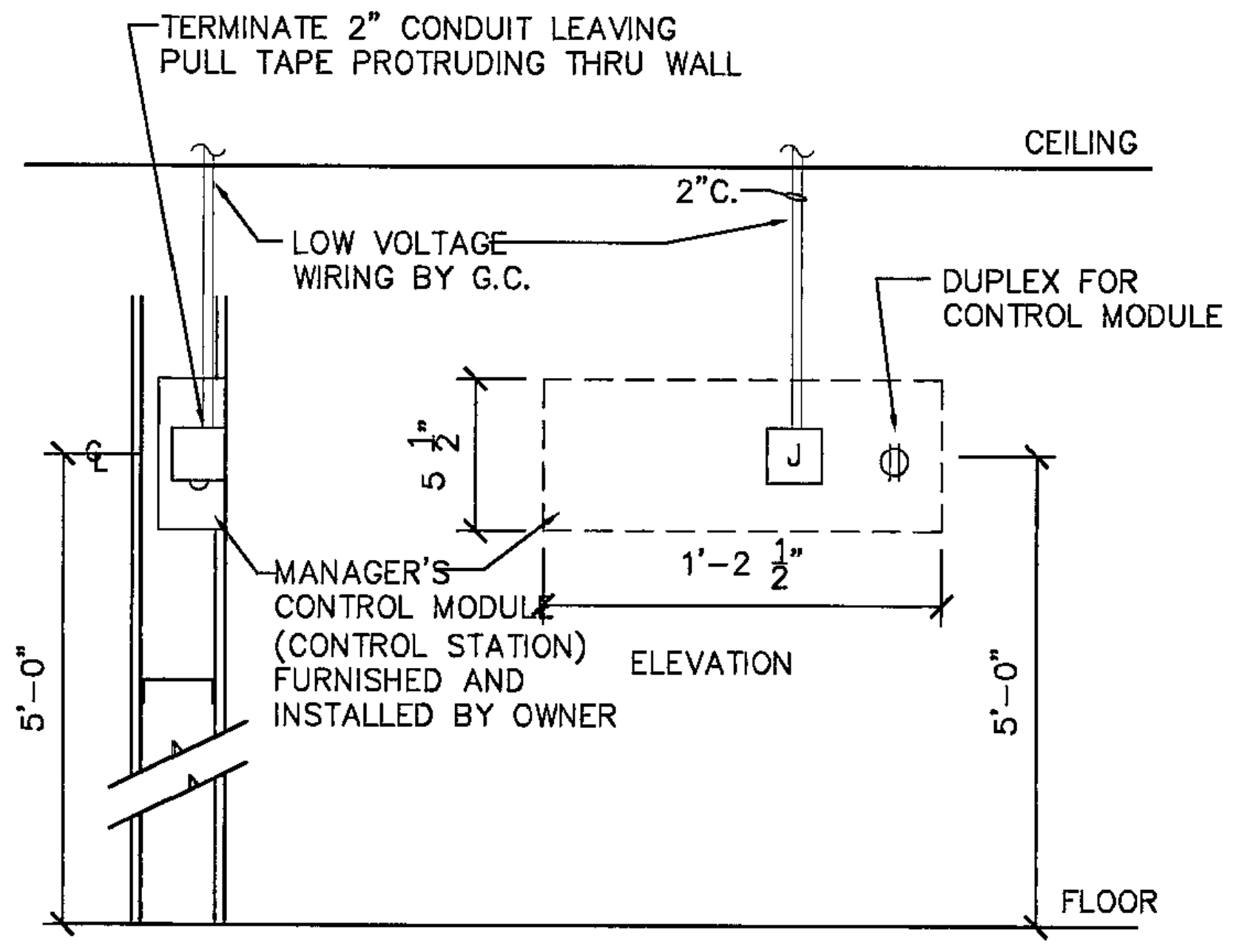


4 JUNCTION BOX DETAIL
SCALE: N.T.S.

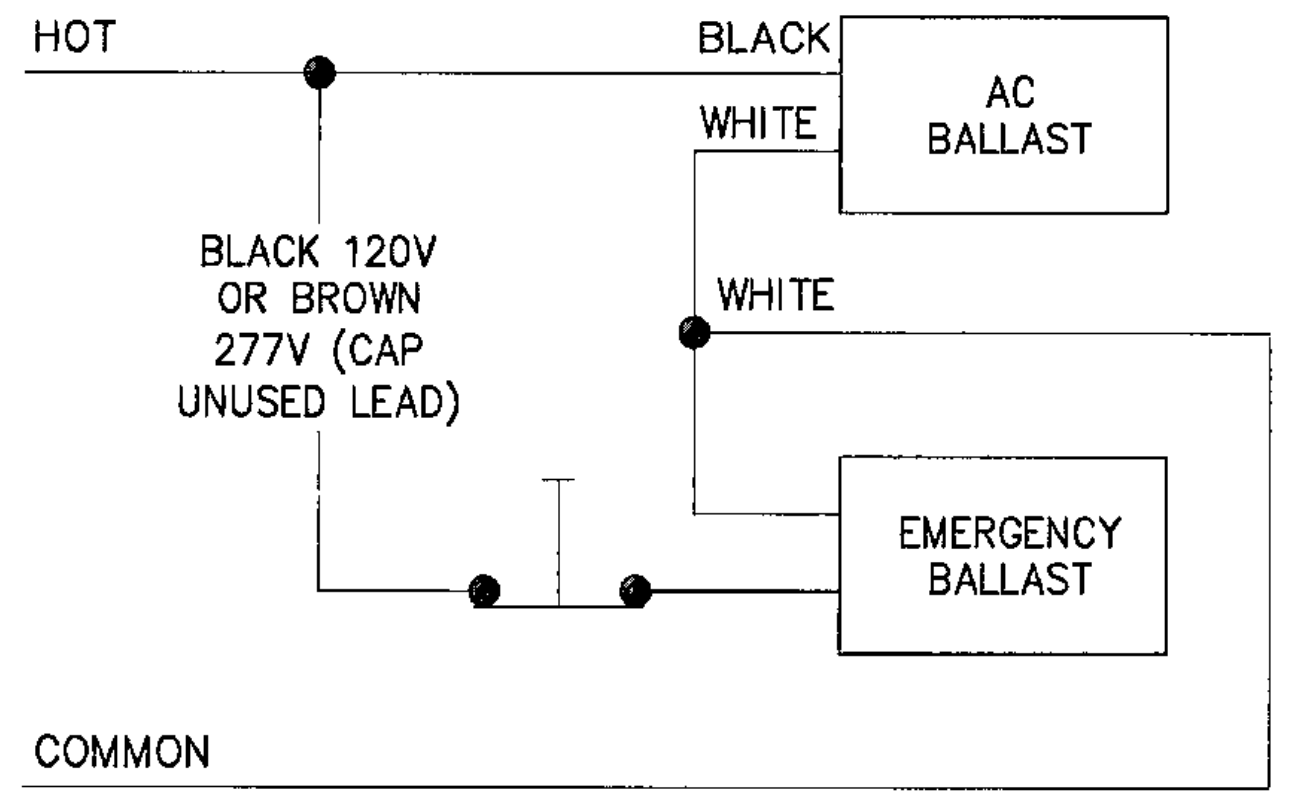
EMERGERGENCY AND AC BALLASTS MUST BE ON THE SAME BRANCH CIRCUIT. REFER TO FACTORY WIRING DIAGRAMS



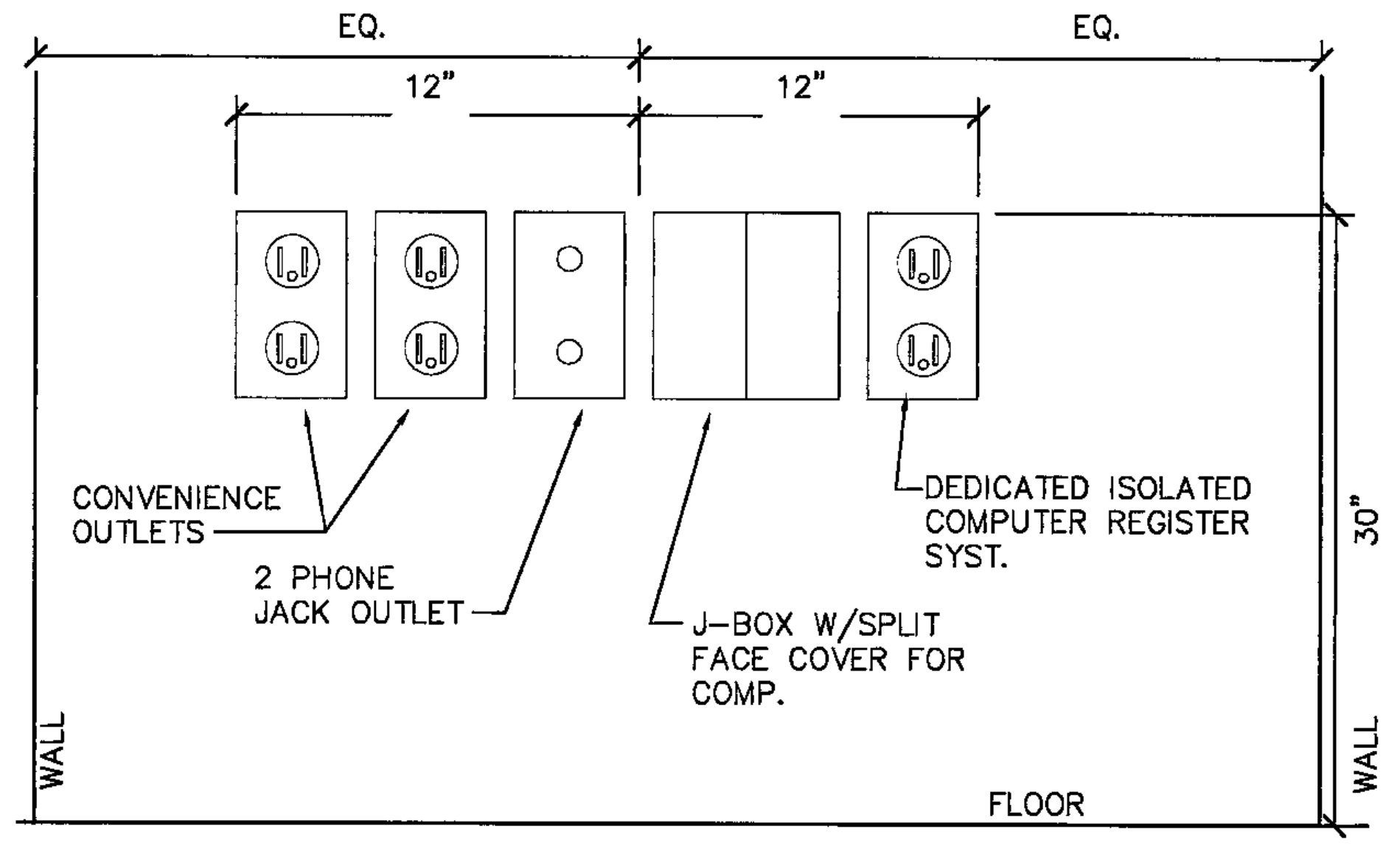
5 SWITCHED FIXTURES
SCALE: N.T.S.


TERMINATE 2" CONDUIT LEAVING PULL TAPE PROTRUDING THRU WALL
CEILING
2"C.
LOW VOLTAGE WIRING BY G.C.
DUPLEX FOR CONTROL MODULE
5 1/2"
J
1'-2 1/2"
MANAGER'S CONTROL MODULE (CONTROL STATION) FURNISHED AND INSTALLED BY OWNER
ELEVATION
5'-0"
5'-0"
FLOOR

6 MANAGER PANEL DETAIL
SCALE: N.T.S.



7 UNSWITCHED FIXTURES
SCALE: N.T.S.


EQ.
EQ.
12"
12"
CONVENIENCE OUTLETS
2 PHONE JACK OUTLET
J-BOX W/SPLIT FACE COVER FOR COMP.
DEDICATED ISOLATED COMPUTER REGISTER SYST.
30"
WALL
WALL
FLOOR

8 OFFICE RECEPTACLES
SCALE: N.T.S.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
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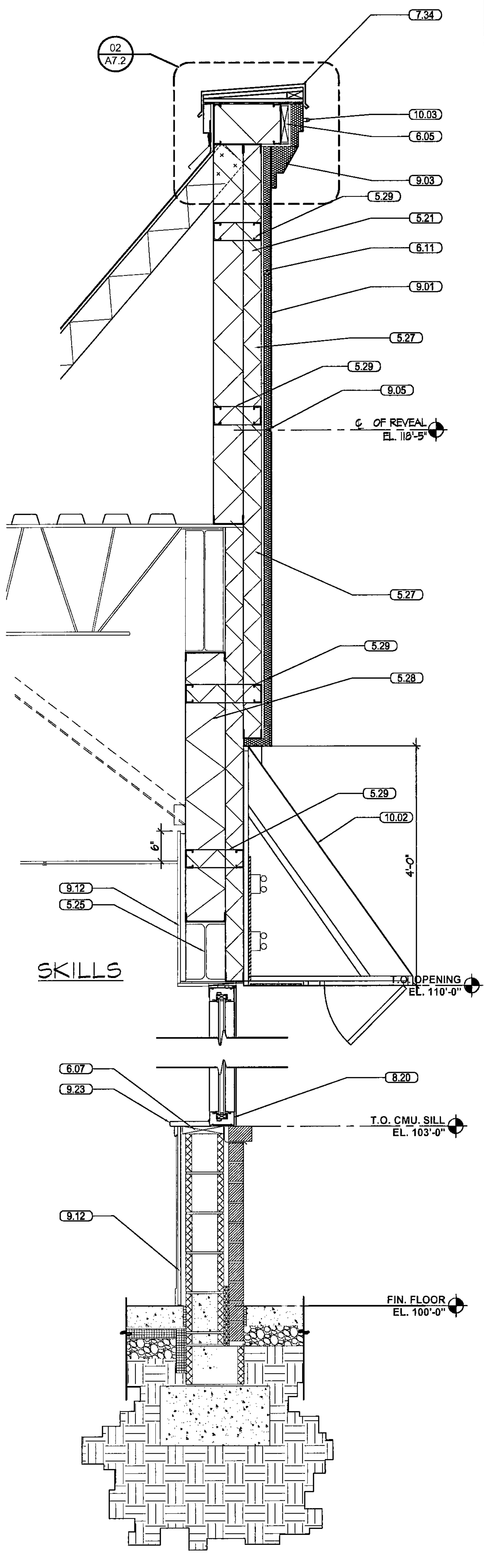
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME

PROJECT NO. 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE: 04/07/10

ELECTRICAL DETAILS

E6.0



02 FRAMING SECTION
SCALE: 3/4" = 1'-0"

3001 N College Ave

SECTION KEYNOTES

(####)

02 - SITE IMPROVEMENTS

2.01 RECOMPACTED FILL UNDER CONCRETE SLAB - SEE SOIL'S REPORT.
2.02 COMPACTED BACKFILL UNDER PAVING - SEE SOIL'S REPORT.
2.03 FINISHED GRADE SEE CIVIL PLANS.
2.10 CONCRETE PAVING, SLOPE AWAY FROM BUILDING 1/4" PER 1'-0" - SEE SITE PLAN
2.11 ASPHALT PAVING - SEE CIVIL DWGS. AND SPECIFICATIONS
2.12 1/2" WIDE EXPANSION JOINT FILLER, HOLD 1" BELOW SIDEWALK AND SEAL.
2.13 LANDSCAPE AREA - SEE LANDSCAPE DRAWINGS.

03 CONCRETE

3.01 1/2" EXPANSION JOINT FILLER, HOLD DOWN 1/2" BELOW T.O. SLAB.
3.02 CONTINUOUS DRIP ALONG EDGE.
3.10 CAST-IN-PLACE CONCRETE FOUNDATION WALL - SEE STRUCT. DWGS.
3.11 4" CAST-IN-PLACE CONCRETE SLAB-ON-GRADE ON 2" OF SAND, 6 MIL V.B. & 4" OF POROUS FILL - SEE STRUCT. DWGS. AND SPECS.
3.12 HAUNCHED CONCRETE SLAB @ DOORS - SEE STRUCT. DWGS.
3.20 PRECAST CONCRETE SPLASHBLOCK - SEE SPECS.

04 - MASONRY

4.01 FILL VOID SOLID W/ GROUT.
4.02 MASONRY BASE FLASHING W/ WEEP HOLES @ 32" O.C.
4.03 MASONRY WALL TIES @ 16" O.C. HORIZONTAL & VERTICALLY.
4.10 (P) 4" W. x 8" H. x 16" L. SPLIT-FACE CMU VENEER (APPLY BLOCK SEALER PRIOR TO PAINTING)
4.11 4"H. x 8"W. x 16" L. SPLIT-FACE CMU SILL, SLOPE TO DRAIN (APPLY BLOCK SEALER PRIOR TO PAINTING)
4.12 4"H. x 8"W. x 16" L. SMOOTH-FACE CMU SOLID BLOCK SOLDIER COURSE (APPLY BLOCK SEALER PRIOR TO PAINTING)

05 - METALS

5.01 STEEL TUBE COLUMN - SEE STRUCT. DWGS.
5.02 STEEL BEAM - SEE STRUCT. DWGS.
5.03 STEEL CHANNEL - SEE STRUCT. DWGS.
5.04 STEEL TUBE FRAMING - SEE STRUCT. DWGS.
5.10 STEEL JOIST FRAMING - SEE STRUCT. DWGS.
5.12 STEEL ROOF DECK - SEE STRUCT. DWGS.
5.13 STEEL EDGE ANGLE - SEE STRUCT. DWGS.
5.14 STEEL KICKER - SEE STRUCT. DWGS.
5.15 STEEL LINTEL, PAINTED - SEE STRUCT. DWGS.
5.20 1 1/2", 20 GA. EXTERIOR METAL STUD FRAMING @ 16" O.C.
5.21 3 5/8", 16 GA. EXTERIOR METAL STUD FRAMING @ 16" O.C.
5.22 6", 16 GA. EXTERIOR METAL STUD FRAMING @ 16" O.C. (20GA. @ STUD BUMPOUTS)
5.23 8" 16 GA. EXTERIOR METAL STUD FRAMING @ 16" O.C.
5.24 STEEL STUD KICKER @ 4'-0" O.C.
5.25 NEW STEEL I-BEAM LINTEL - SEE STRUCT. DWGS.
5.26 STEEL STUD HORIZONTAL BRACING @ 4'-0" O.C.
5.27 3 5/8", 18 GA. EXTERIOR METAL STUD FRAMING @ 16" O.C.
5.28 8", 20 GA. METAL STUD FRAMING FILLER @ 16" O.C.
5.29 3 5/8", 18 GA. EXTERIOR METAL STUD BRACING AT EACH STUD

06 - WOOD

6.01 2X4 WOOD BLOCKING.
6.02 2X6 WOOD BLOCKING.
6.03 2X4 TREATED WOOD BLOCKING.
6.04 2X6 TREATED WOOD BLOCKING.
6.05 2X TREATED WOOD BLOCKING.
6.06 2X TREATED WOOD FRAMING.
6.07 2X TREATED WOOD NAILER.
6.10 1/2" EXTERIOR GRADE PLYWOOD SHEATHING.
6.11 1/2" EXTERIOR GRADE GYPSUM SHEATHING. (DENSGLASS)

07 - THERMAL AND MOISTURE PROTECTION

7.01 CONT. WEATHER RESISTANT BARRIER APPLIED TO SHEATHING - SEAL ALL JOINTS
7.02 R-13 BATT INSULATION - SEE SPECS.
7.03 R-19 BATT INSULATION - SEE SPECS.
7.05 2" RIGID PERIMETER INSULATION BOARD - SEE SPECS. (WHEN REQUIRED)
7.06 FILL VOID WITH BATT INSULATION, TYPICAL.
7.20 60 MIL TPO FULLY ADHERED MEMBRANE ROOFING SYSTEM - SEE SPECS.
7.21 3.3", R-20 AGED RIGID ROOFING INSULATION - SEE SPECS. (REVIEW FOR EACH PROJECT)
7.22 FORM CRICKETS W/ TAPERED INSULATION.
7.23 45 MIL (WHITE) TPO FULLY ADHERED MEMBRANE FLASHING - EXTEND UP PARAPET WALL & UNDER COPING CAP.
7.24 ROOFING TERMINATION & FLASHING, SEE DETAIL 13/A7.1
7.25 PREMANUFACTURED ROOF CURB. UNDER ROOF TOP EQUIPMENT.
7.26 2'-6" X 3'-0" ROOF HATCH W/ STEEL LADDER.
7.30 GALVANIZED SHEET METAL FLASHING.
7.31 GALVANIZED SHEET METAL COUNTERFLASHING.
7.32 PREFINISHED OR PAINTED SHEET METAL FLASHING.
7.33 PREFINISHED OR PAINTED SHEET METAL COUNTERFLASHING.
7.34 GALV. SHEET METAL COPING CAP, PAINT IN FIELD AS SPECIFIED, SHEET A4.0
7.35 PREFINISHED OR PAINTED SHEET METAL DOWNSPOUT SYSTEM.
7.36 PREFINISHED OR PAINTED SHEET METAL CONDUCTOR HEAD.
7.37 GALVANIZED SHEET METAL SCUPPER - SEE 12/A2.4
7.40 SEALANT & BACKER ROD, TYPICAL.
7.41 SEALANT & BACKER ROD ON BOTH SIDES, TYPICAL.
7.42 CONTINUOUS SEALANT, TYPICAL.

08 - OPENINGS

8.01 HOLLOW METAL DOOR, PAINTED.
8.02 HOLLOW METAL FRAME, PAINTED.
8.20 ANODIZED BRONZE ALUMINUM STOREFRONT SYSTEM W/ 1" INSULATED GLASS.
8.21 ANODIZED ALUMINUM STOREFRONT ENTRANCE DOOR (KYNAR FINISH TO MATCH HOLLYBERRY RED) - SEE SPECIFICATIONS.
8.22 PREFINISHED ALUMINUM PANEL TO MATCH STOREFRONT SYSTEM.
8.23 ALUMINUM THRESHOLD - SET IN BED OF SEALANT.

09 - FINISHES

9.01 E.I.F.S. SYSTEM W/ 1 1/2" EPS INSULATION BOARD. (TYPICAL)
9.02 E.I.F.S. SYSTEM W/ 2" EPS INSULATION BOARD.
9.03 E.I.F.S. W/ PREFORMED EPS INSULATION.
9.04 CONTINUOUS DRIP EDGE, TYPICAL.
9.05 'V' GROOVE CONTROL JOINT / REVEAL
9.06 PAINT EXPOSED FOUNDATION TO MATCH E.I.F.S.
9.07 'V' GROOVE REVEAL & PAINT ACCENT BANDING
9.08 CONT. DRAINAGE & VENT SYSTEM ALONG THE BOTTOM OF THE E.I.F.S.
9.10 3 5/8" INTERIOR METAL STUD FRAMING @ 16" O.C.
9.11 6" INTERIOR METAL STUD FRAMING @ 16" O.C.
9.12 5/8" GYPSUM BOARD, TAPED AND SANDED, FINISH PER FINISH DRAWINGS.
9.13 3 5/8" METAL STUD KICKER @ 4'-0" O.C. MAX
9.20 SUSPENDED METAL STUD / GYPSUM BOARD BULKHEAD - SEE REFLECTED CEILING PLAN
9.21 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM - SEE SPECS. AND FINISH DRAWINGS
9.22 SUSPENDED METAL STUD / GYPSUM BOARD CEILING OR SOFFIT- SEE CEILING PLAN, DRAWING A5.1
9.23 SEE FINISH PLANS FOR INTERIOR FINISH INFORMATION.

10 - SPECIALTIES

10.01 LIGHTED SIGNAGE BY OWNER. GENERAL CONTRACTOR TO COORDINATE POWER AND CONNECTION REQUIREMENTS WITH SIGN MFR. SEE DETAIL 18/A7.2
10.02 BACK LIT AWNING SYSTEM BY OWNER - G.C. TO COORD. POWER & CONNECTION REQUIREMENTS.
10.03 CONT. L.E.D. STRIP LIGHTING ALONG PARAPET - SEE ELEVATIONS FOR EXTENT OF THE LOCATION

15 - MECHANICAL

15.01 PLUMBING FIXTURE - SEE PLUMBING DRAWINGS.
15.02 FIRE DEPARTMENT CONNECTION - SEAL AROUND PERIMETER - SEE PLUMB. DWGS.
15.03 FROSTPROOF HOSE BIBB - SEAL AROUND PERIMETER - SEE PLUMBING DWGS.
15.04 ROOF DRAIN - SEE PLUMBING DWGS.
15.10 MECHANICAL ROOF TOP UNIT - SEE MECH. DWGS.
15.11 MECHANICAL DUCTWORK - SEE MECH. DWGS.
15.12 EXHAUST FAN UNIT- SEE MECH. DWGS.

16 - ELECTRICAL

16.01 WALL MOUNTED LIGHT FIXTURE - SEE ELECT. DWGS.
16.02 RECESSED EXTERIOR LIGHT FIXTURE - SEE ELECT. DWGS.
16.03 INTERIOR LIGHT FIXTURE - SEE ELECT. DWGS.

REVISED DRAWINGS
JUL 2 1 2010
FAYETTEVILLE
BUILDING SAFETY DIVISION

APPROVAL
JUL 2 6 2010
PLAN REVIEW

AP 42988

REGISTRATION SEAL

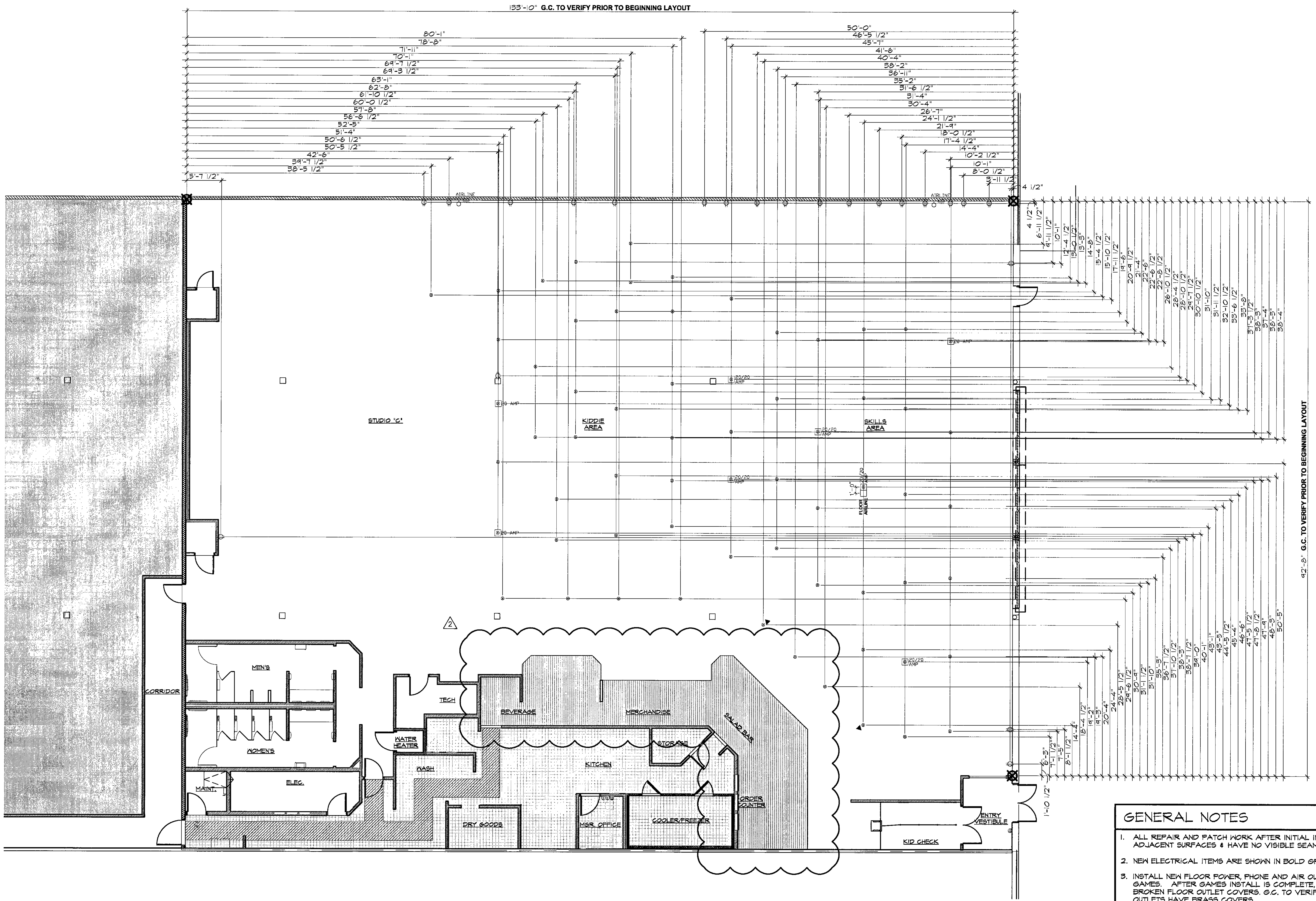
FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcy.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
ADD-1	7-19-10	FIELD COMMENTS	

PROJECT NO. 090899
DRAWN BY: JCL
CHECKED BY: XXX
ISSUE DATE: 04/07/10

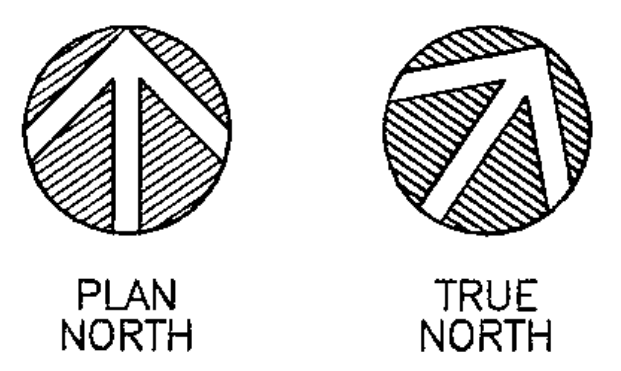
A6.1ADD



01 DIMENSIONED OUTLET PLAN

SCALE: 1/8" = 1'-0"

☒ START POINT NOTE: START POINT - TO START AT IN SIDE FACE OF FINISH WALL, UNLESS NOTED OTHERWISE



GENERAL NOTES

1. ALL REPAIR AND PATCH WORK AFTER INITIAL INSTALLATION SHALL MATCH ADJACENT SURFACES & HAVE NO VISIBLE SEAMS.
2. NEW ELECTRICAL ITEMS ARE SHOWN IN BOLD GRAPHICS ON PLAN(S).
3. INSTALL NEW FLOOR POWER, PHONE AND AIR OUTLETS, AS DETERMINED BY GAMES. AFTER GAMES INSTALL IS COMPLETE, REPLACE ANY EXPOSED BROKEN FLOOR OUTLET COVERS. G.C. TO VERIFY THAT ALL FLOOR OUTLETS HAVE BRASS COVERS.

FOR REVIEW DRAWINGS
JUN 13 2010
FAYETTEVILLE
BUILDING SAFETY DIVISION

FLOOR LEGEND

⊡ 20 AMP	20 AMP POWER SUPPLY
AIRLINE	WALL MOUNT AIRLINE POWER SUPPLY
FLOOR AIRLINE 1'-0"	FLOOR MOUNT AIRLINE POWER SUPPLY
◉	FLOOR MOUNT DUPLEX POWER OUTLET
⊖	WALL MOUNT DUPLEX POWER OUTLET @ 18" A.F.F.
▶	PHONE JACK, FLOOR OR WALL @ 18" A.F.F.

PLAN REVIEW
JUL 15 2010
APPROVAL

3001 N College Ave.

AP 42988

REGISTRATION SEAL

FREDERICK J. GOGLIA
No. 2895
ARKANSAS
7.9.10

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

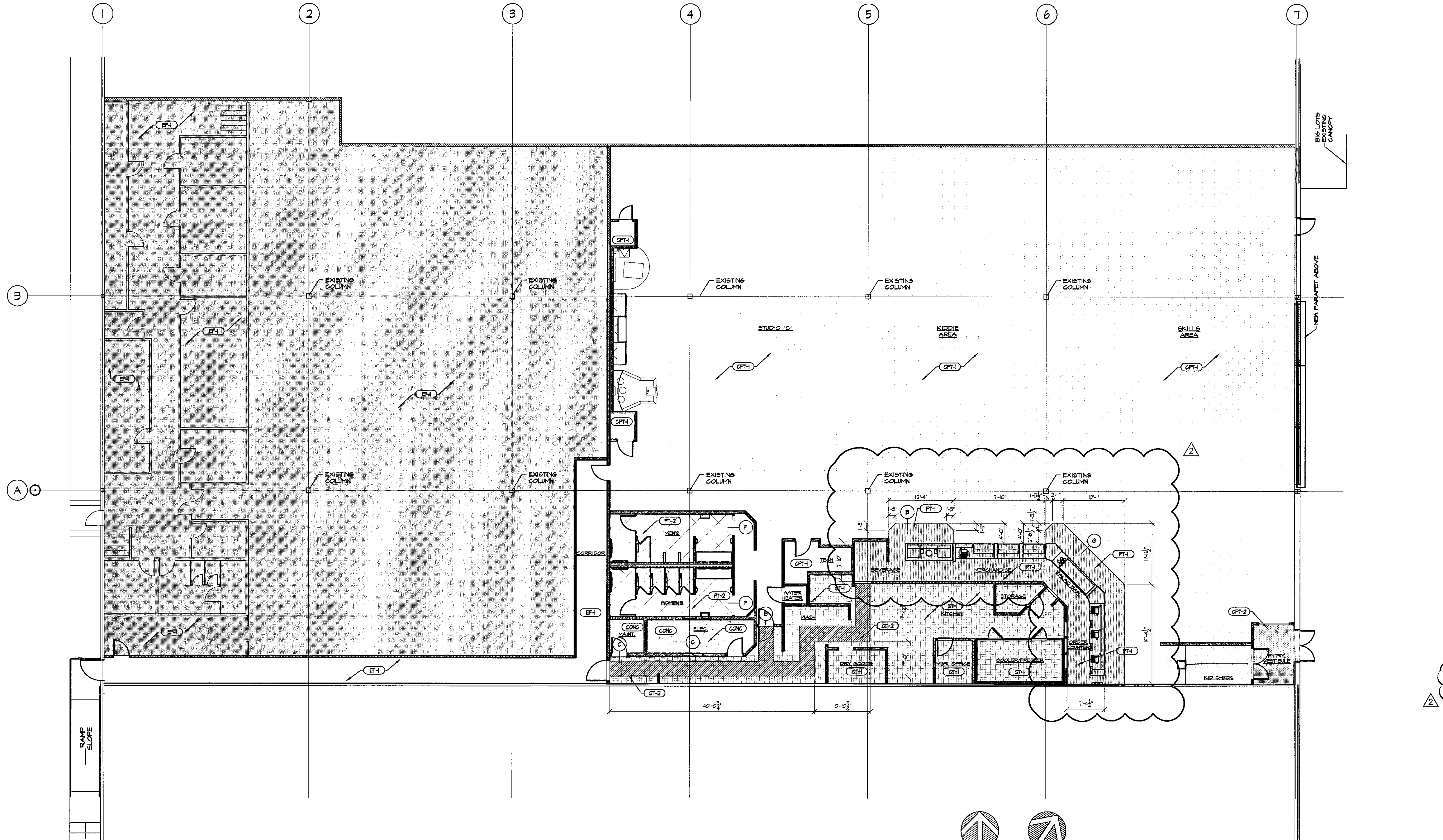
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

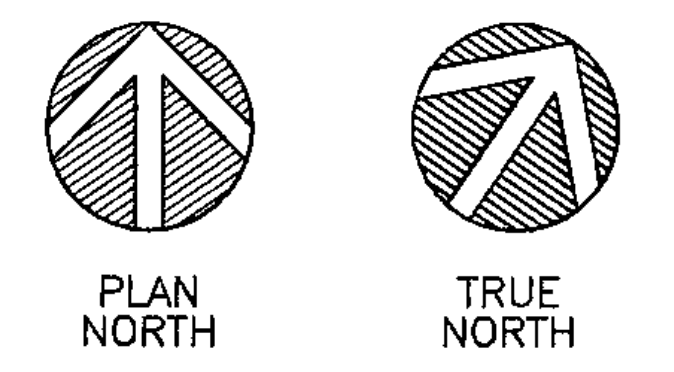
REV	DATE	DESCRIPTION	NAME
2	7/6/10	OWNER CHANGES	LRE

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: RK
ISSUE DATE: 04/07/10

DIMENSIONED OUTLET PLAN

A1.2





01 FLOOR FINISH PLAN

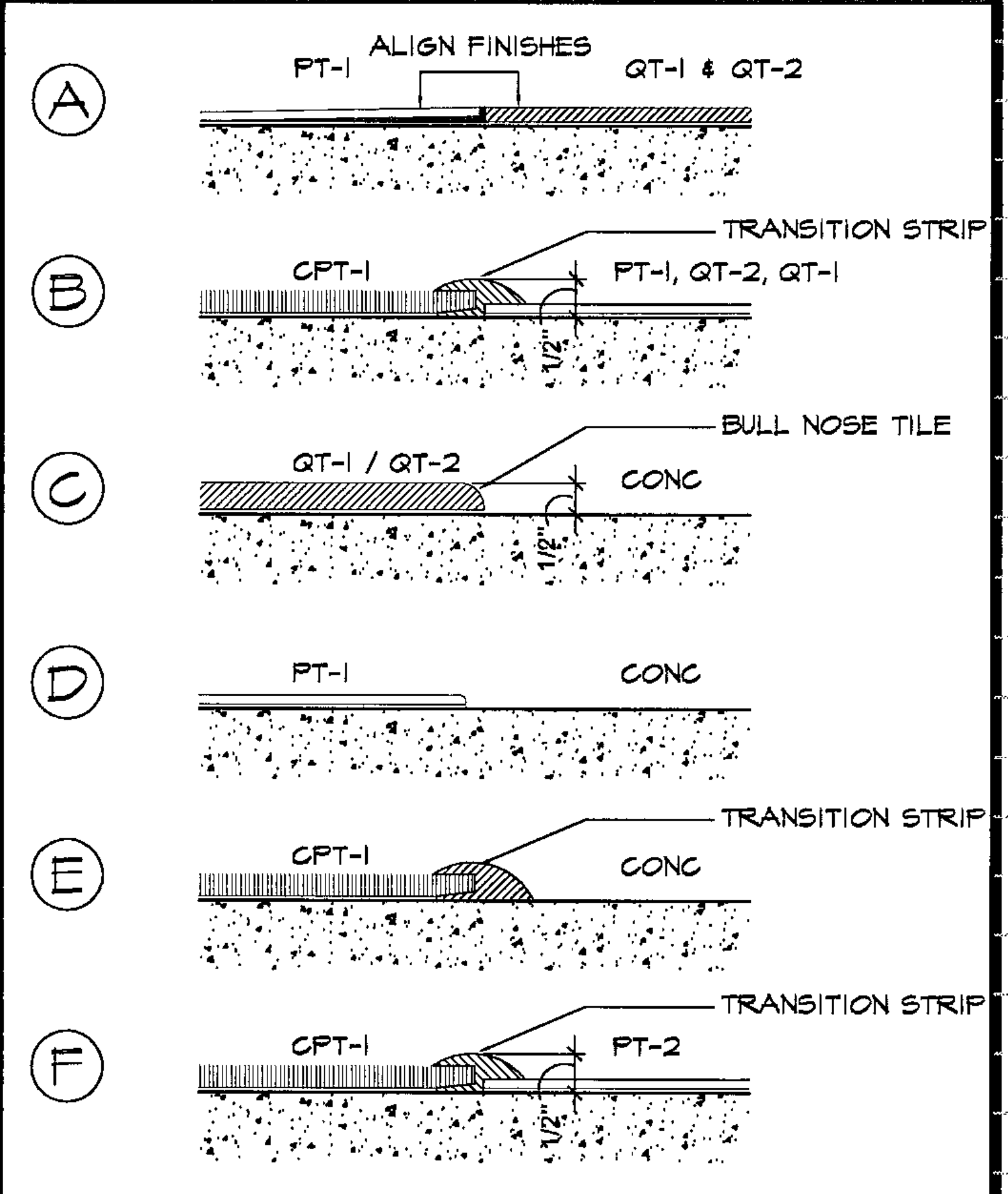
SCALE: 3/32" = 1'-0"

FLOOR FINISH KEYNOTES

PT-1	TYPE: FLOOR TILE SIZE: 6" x 24" INTERCERAMIC FORESTLAND CYPRESS(OFFSET INSTALL FOR WOOD LOOK). GROUT: MAPEI #7 - "CHOCOLATE" USE 1/16" GROUT LINES(VERIFY W/ PROJECT MANAGER)
PT-2	TYPE: FLOOR TILE SIZE: 20"x20" INTERCERAMIC INDIAN STONE AUTUMN RUST (INSTALL AT DIAGONAL) COVE: 7/16" X 7/16" STAINLESS STEEL W/ 6" X 13" INDIAN STONE AUTUMN RUST BASE. GROUT: MAPEI #42 - "MOCHA" USE 1/16" GROUT LINES
CPT-1	INTERFACE CARPET (ITEM# 174702, CUBIC COLOURS, SAMPLE COLOUR 248360-003) AND BASE (BURKE #217 "CHARCOAL") CARPET TO BE SUPPLIED BY THE OWNER, BASE TO BE SUPPLIED BY THE CONTRACTOR
CPT-2	INTERFACE (STYLE 62302040) DECO DIAGONAL TILE (COLOR 602391 ANTHRACITE) AND CHARCOAL BASE (VESTIBULE ONLY)
CONC	EXPOSED CONCRETE - SEAL WITH GRAY EPOXY
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV10Q- 6X6 "RED ABRASIVE" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
EF-1	EXISTING FLOORING TO REMAIN.

NOTE: ALL FINISHES TO BE INSTALLED BY G.C. UNLESS NOTED OTHERWISE

FLOOR TRANSITION TYPES



FINISH LEGEND

CONC	EXPOSED CONCRETE - SEAL WITH GRAY EPOXY
PT-1	TYPE: FLOOR TILE SIZE: 6" x 24" INTERCERAMIC FORESTLAND CYPRESS(OFFSET INSTALL FOR WOOD LOOK). GROUT: MAPEI #7 - "CHOCOLATE" USE 1/16" GROUT LINES(VERIFY W/ PROJECT MANAGER)
PT-2	TYPE: FLOOR TILE SIZE: 20"x20" INTERCERAMIC INDIAN STONE AUTUMN RUST (INSTALL AT DIAGONAL) COVE: 7/16" X 7/16" STAINLESS STEEL W/ 6" X 13" INDIAN STONE AUTUMN RUST BASE. GROUT: MAPEI #42 - "MOCHA" USE 1/16" GROUT LINES
QT-1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
QT-2	TYPE: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV10Q- 6X6 "RED ABRASIVE" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
CPT-1	INTERFACE CARPET (ITEM# 174702, CUBIC COLOURS, SAMPLE COLOUR 248360-003) AND BASE (BURKE #217 "CHARCOAL") CARPET TO BE SUPPLIED BY THE OWNER, BASE TO BE SUPPLIED BY THE CONTRACTOR
CPT-2	INTERFACE (STYLE 62302040) DECO DIAGONAL TILE (COLOR 602391 ANTHRACITE) AND CHARCOAL BASE (VESTIBULE ONLY)
	BOUNDARY OF NEW CARPET TO BE "CEC PASSION" BY HARBINGER AND BASE (BURKE #217 "CHARCOAL")
EF-1	EXISTING FLOORING TO REMAIN.

2

NOTE: ALL FINISHES TO BE INSTALLED BY G.C. UNLESS NOTED OTHERWISE

REGISTRATION SEAL

No. 2995

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

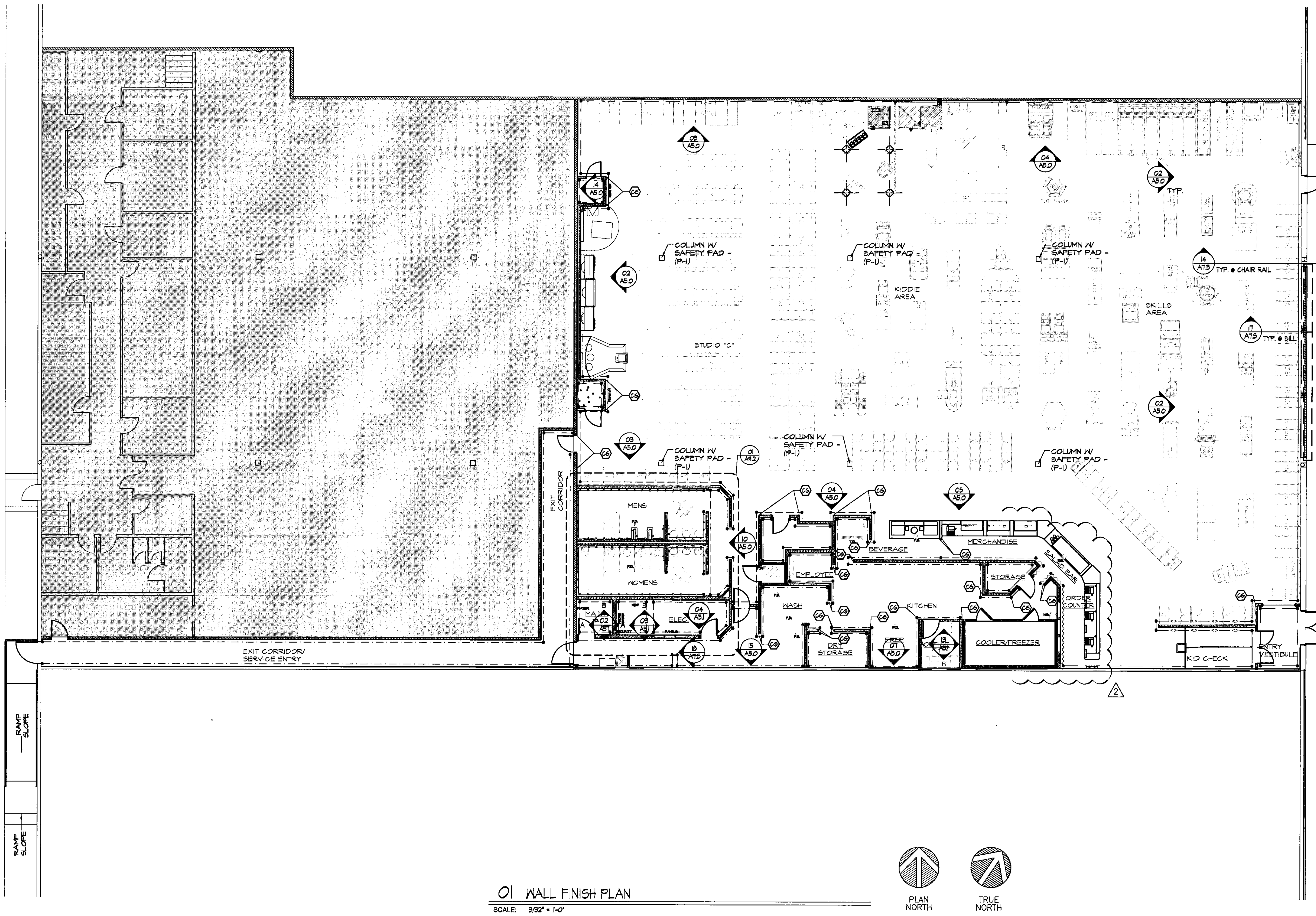
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
2	7/06/10	OWNER CHANGES	LRE

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: RK
ISSUE DATE:
04/07/10

FINISH FLOOR PLAN

A2.0



01 WALL FINISH PLAN

SCALE: 3/32" = 1'-0"

WALL FINISH LEGEND

•	FINISH TRANSITION
•-·-·-·-•	FRP
•— — — —•	MARLITE WALL PANEL AND CHAIR RAIL W/ PAINT ABOVE (P-2 "WHITE WOOL")
•————•	MARLITE WALL PANEL AND CHAIR RAIL W/ PAINT ABOVE (P-4 "CORSICAN PURPLE")
•- - ——- - -•	PAINT WALL (P-2 "WHITE WOOL")
•··—··—··•	PAINT WALL (P-5 "FLAT BLACK")
•—◇—◇—◇—•	MARLITE WALL AND CHAIR RAIL
•-o-o-o-o-•	CERAMIC WALL TILE W/ PAINT ABOVE (P-6 LATTE) - SEE SHEET A9.1
•\/\/\/\/•	SYMPHONY WALLCOVERING, TYPE: SAMBA, COLOR: BROWNSTONE
HEADER (P-2) E.S.	PAINT HEADER (P-2 "WHITE WOOL") EACH SIDE
COLUMN W/ SAFETY PAD - (P-1)	PAINT ALL SIDES OF COLUMN (P-1 "HOLLYBERRY RED") INSTALL SAFETY PADS AS DIRECTED
CG	PLASTIC CORNER GUARDS - SEE DETAIL 20/A7.3
OT	OAK TRIM @ CORNERS

2

WALL FINISH SPECIFICATIONS

1. PAINT FINISH: ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
2. PAINT SPECIFICATIONS: FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEC MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
3. ALL PRODUCTS LISTED: ARE AVAILABLE THRU SHERWIN WILLIAMS.NATIONAL ACCOUNT MANAGER, JOHN W GASTON (214-553-3940 - OFFICE) (CELL 214-728-6696) D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
4. P-1 HOLLYBERRY RED - USED ON EXPOSED METAL COLUMNS METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.
   METAL PAINT - CUSTOM FORMULA:
   BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING:
   844 COLORANTS - QV-40, QR-32, TW-16. THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES.
5. P-2 WHITE WOOL SW1354 - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY/APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS)
   NOTE: ON FIRE EXIT DOORS AND FRAMES
   PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMIK UNIVERSAL PRIMER, B50Z SERIES.)
6. P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
7. P-4 CORSICAN PURPLE SW1825 - FOR ACCENT GYPSUM WALL.
   DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL.. (TWO COATS)
8. P-5 FLAT BLACK - USED ON INTERIOR BACK WALL OR ANIMATED SHOW
   PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
9. P-6 LATTE SW6108 - RESTROOM WALLS
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
10. P-7 CEILING EXTRA WHITE SW7006 - RESTROOM CEILING & SHELVING / KITCHEN DOORS / FRAMES
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
11. ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.) -
   1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S 64 SERIES (CHERRY)-S64R6WITH 4 OZ. #844 "RED OXIDE"
   2ND COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% - T67F3.
   3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER, T57C15
   4TH COAT - SAME AS THIRD COAT.
12. W-2 F.R.P. PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
13. W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
14. W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"
15. W-6 WALL COVERING (ORDER WALL) - SYMPHONY WALLCOVERING SAMBA BROWNSTONE

2

WALL FINISH NOTES

1. PROVIDE STAINLESS STEEL CORNER GUARDS AT KITCHEN AREA AS INDICATED ON PLAN 01/K1.0.
2. REFER TO DRAWING A9.1 FOR TOILET ROOM FINISH INFORMATION AND SPECIFICATIONS.
3. SEE DRAWINGS A5.0 AND A5.1 FOR INTERIOR ELEVATIONS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

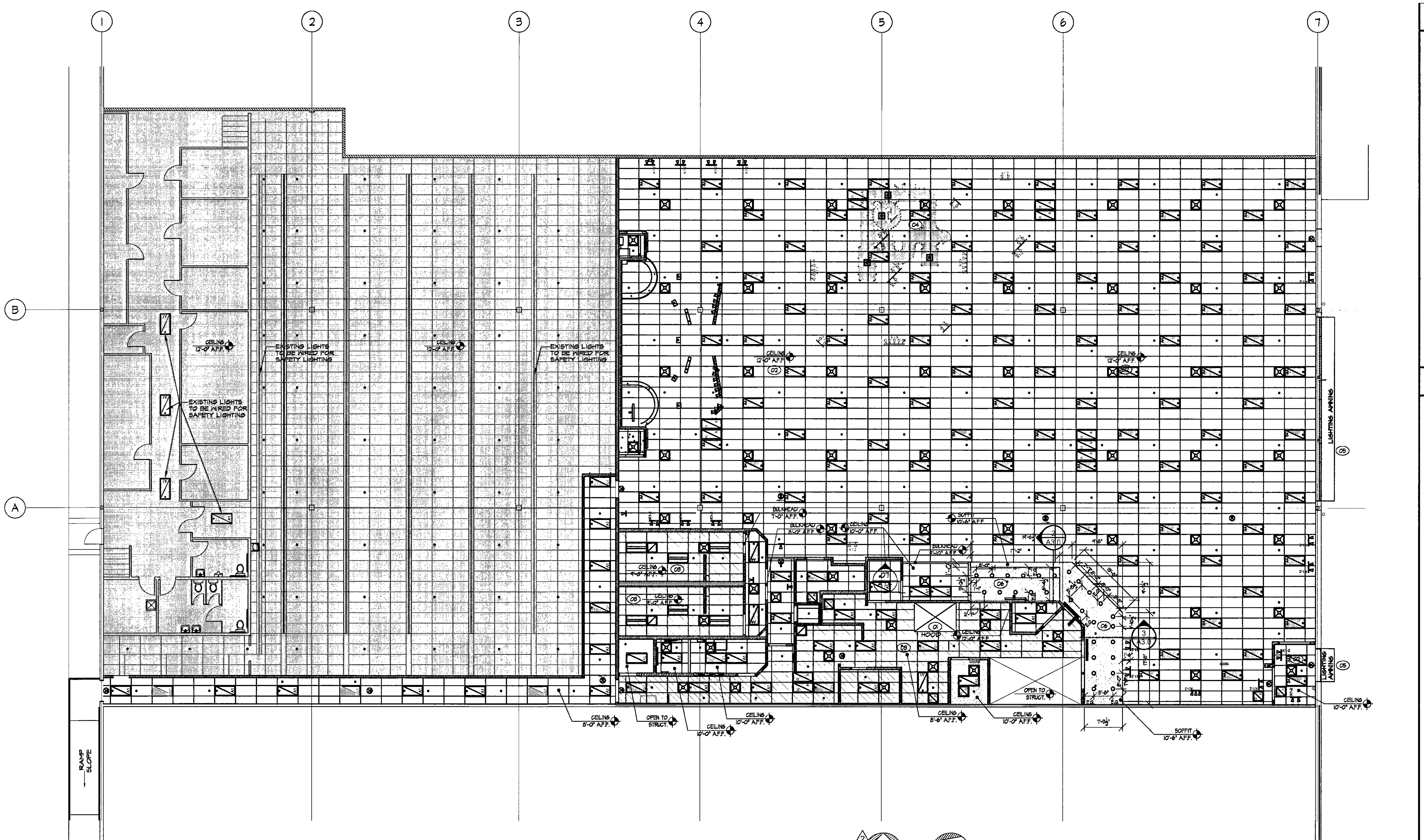
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
2	7-6-10	OWNER CHANGES	JCL

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE:
04/07/10

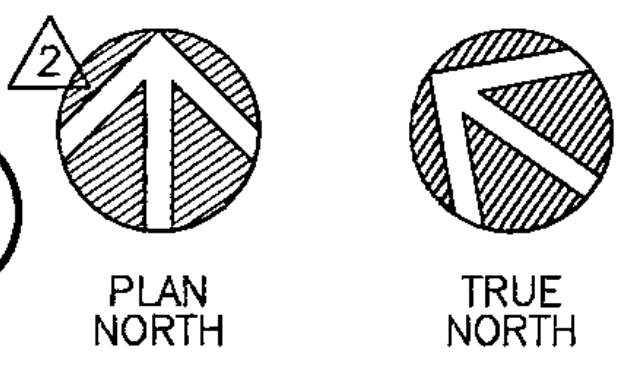
WALL FINISH PLAN

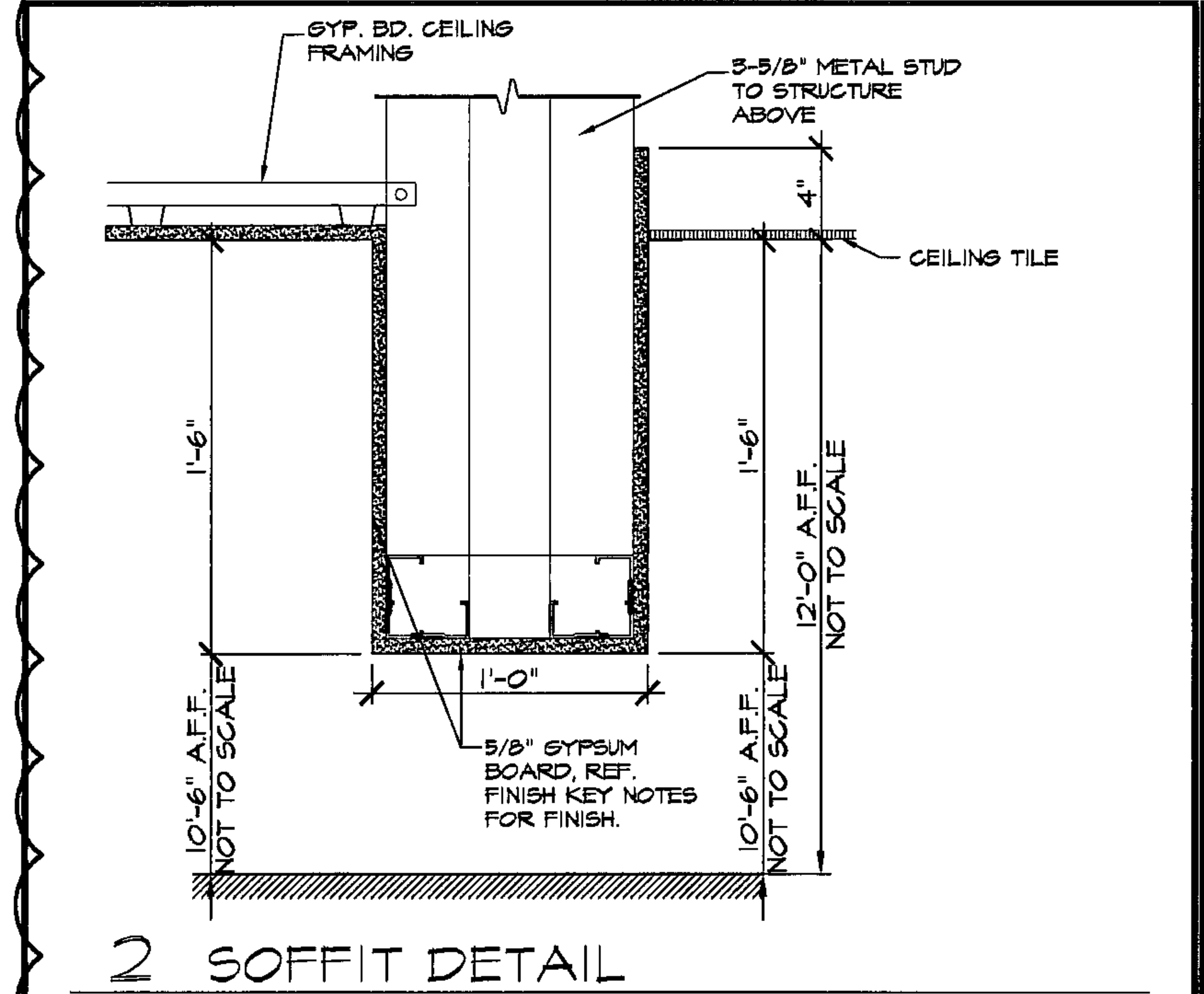
A2.1



01 REFLECTED CEILING PLAN

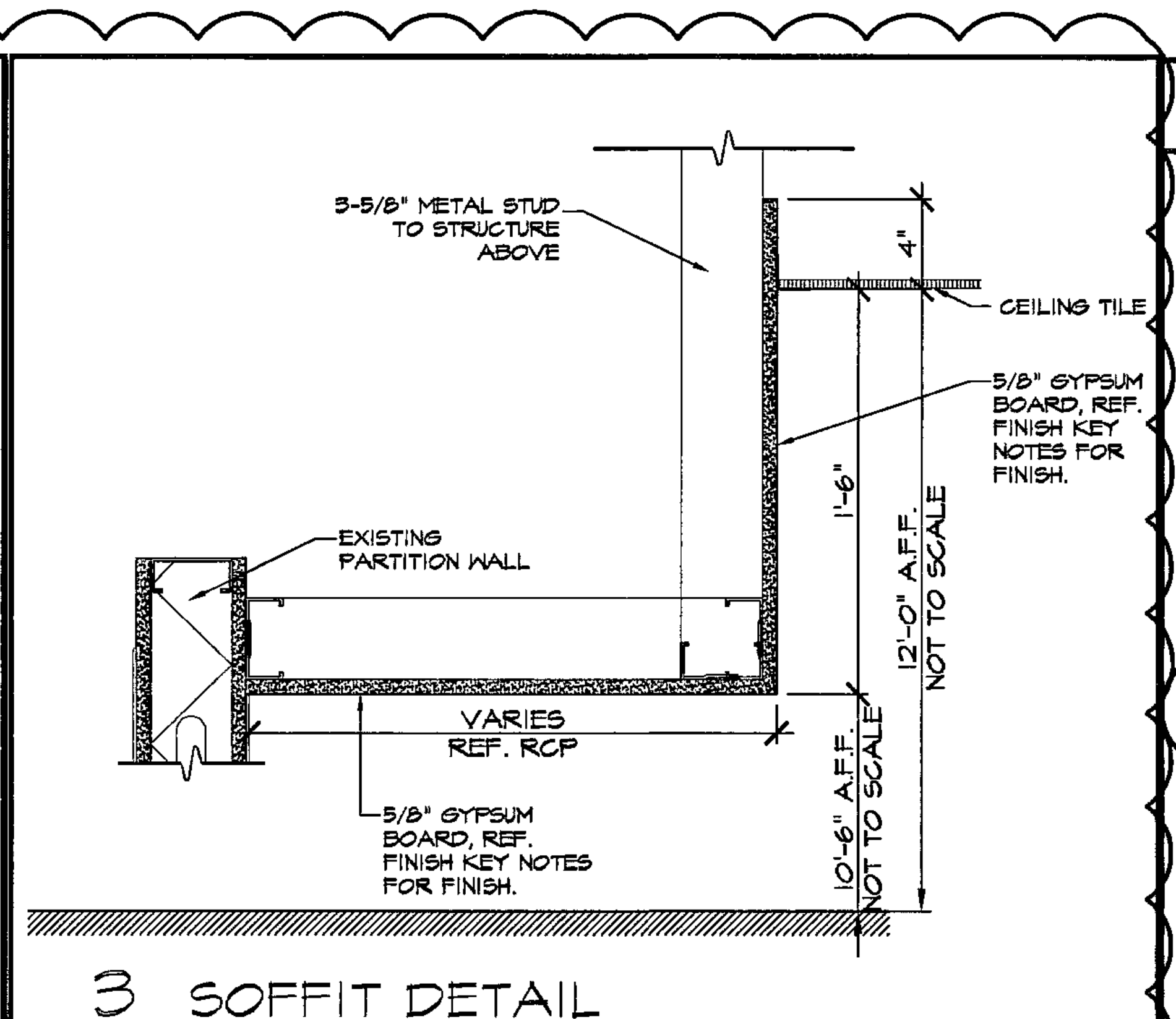
SCALE: 3/32" = 1'-0"




GYP. BD. CEILING FRAMING
3-5/8" METAL STUD TO STRUCTURE ABOVE
CEILING TILE
4"
1'-6"
1'-6"
12'-0" A.F.F. NOT TO SCALE
1'-0"
5/8" GYPSUM BOARD, REF. FINISH KEY NOTES FOR FINISH.
10'-6" A.F.F. NOT TO SCALE
10'-6" A.F.F. NOT TO SCALE

2 SOFFIT DETAIL

SCALE: 1-1/2" = 1'-0"


3-5/8" METAL STUD TO STRUCTURE ABOVE
CEILING TILE
4"
5/8" GYPSUM BOARD, REF. FINISH KEY NOTES FOR FINISH.
EXISTING PARTITION WALL
1'-6"
12'-0" A.F.F. NOT TO SCALE
VARIES REF. RCP
5/8" GYPSUM BOARD, REF. FINISH KEY NOTES FOR FINISH.
10'-6" A.F.F. NOT TO SCALE

3 SOFFIT DETAIL

SCALE: 1-1/2" = 1'-0"

2

REFLECTED CEILING KEYNOTES

EXAMPLE: A3.24 = (24)

A3.01 OVEN HOOD: STAINLESS STEEL OVEN HOOD - REFER TO DRAWING K3.0 FOR OVEN HOOD DETAILS.

A3.02 NEW CEILING TILE & GRID: PROVIDE AND INSTALL NEW CEILING TILE (ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24X48X3/4") WITH NEW XL 15/16" EXPOSED TEE GRID SYSTEM.

A3.03 NEW VINYL CEILING TILE & GRID: PROVIDE AND INSTALL NEW VINYL CEILING TILE (ARMSTRONG #670 VINYL FACED G.L.I.P. 24X48X1/2") WITH NEW PRELUDE XL WHITE GRID.

A3.04 SKYCRAWL: NEW FLOOR MOUNTED SKYCRAWL WITH NEW CEILING POWER.

A3.05 LIGHTED AWNING: LIGHTED AWNINGS BY OWNER'S SIGN COMPANY - SEE DETAIL 11/A7.2 FOR MOUNTING INFORMATION.

A3.06 NEW GYP. BOARD CEILING: PROVIDE AND INSTALL NEW GYP. BOARD CEILING AT FRONT ORDER, SALAD BAR AND MERCHANDISE COUNTERS.

FINISH KEY

09510 ACOUSTICAL LAY-IN CEILINGS

LT-1 ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24" x 48" x 3/4" WITH XL HA 15/16" EXPOSED TEE SYSTEM (COLOR: HAZE)

LT-2 ARMSTRONG #670 VINYL FACED G.L.I.P. 24" X 48" X 1/2" WITH PRELUDE XL WHITE GRID

LT-3 LT-2 CUSTOM MATCHED TO HAZE ARMSTRONG CEILING TILE AND GRID (LT-1). GRID TO MATCH CEILING TILE COLOR IN PUBLIC AREAS.
PAINT: B30 W401, N1-2Y, P1-4

2

RCP GENERAL NOTES

1. NO FIXTURES, GRILLES, SPEAKERS, SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING T'S OR SHADOW LINE; CENTER IN PANEL.
2. PAINT ALL GRILLES AND RECESSED SPEAKERS TO MATCH CEILING GRID.
3. ALL SPEAKER WIRE SHALL HOME RUN TO CONTROL ROOM RACK. REF. ELEC. DWGS. FOR CONNECTIONS.
4. EXIT SIGNAGE TO BE INSTALLED PER OSSC 1011.
5. CEILING GRID INSTALLATION SHALL BE PER SECTION 9.6 OF ASCE 7-02 AND CISCA GUIDELINES FOR SEISMIC ZONES 3-4.
6. REFER TO DETAIL 06/A7.4 FOR TYPICAL LIGHT BRACING REQUIREMENTS.
7. REFER TO DETAIL 09/A7.4 FOR CEILING LATERAL TIE REQUIREMENTS.
8. G.C. IS RESPONSIBLE FOR COORDINATION AND VERIFICATION OF POWER FOR SIGNAGE / AWNINGS PRIOR TO INSTALLATION
9. ALL NON-RATED PARTITIONS TO TERMINATE 6" ABOVE FINISHED CEILING. SEE WALL TYPES, DWG. A1.0 FOR ADDITIONAL INFORMATION.
10. ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOM U.N.O.
11. REFER TO DETAIL 03/A7.4 FOR FIRE SPRINKLER PIPING SUPPORT DETAIL.
12. COORDINATE ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS THAT ARE SUPPORTED BY INTERFACE W/ CEILING SYSTEMS.
13. ALL INSULATION WIRING AND OTHER CONSTRUCTION ITEMS SHALL BE NON-COMBUSTIBLE AND RATED AS REQUIRED BY CODE FOR WORK IN PLENUM SPACES WHERE INDICATED.

RCP LEGEND

	2X4 EXISTING GRID TO REMAIN
	2X4 GRID & LAY-IN ACOUSTIC TILE (LT-1)
	2X4 GRID & VINYL FACED LAY-IN TILE (LT-2)
	2X4 VINYL FACED LAY-IN TILE (LT-3)
	GYP BD. CEILING
	2X4 LAY-IN FLUORESCENT FIXTURE
	2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP
A1	2X4 LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS
A1	2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & ACRYLIC LENS
A4	2X4 LAY-IN FLUORESCENT FIXTURE W/ EGGCRATE GRILLE
	2X4 LAY-IN FLUORESCENT FIXTURE W/ BATTERY BACK-UP & EGGCRATE GRILLE
A6	2X2 LAY-IN FLUORESCENT FIXTURE W/ EGGCRATE GRILLE
	MERCHANDISE LIGHT MOUNTED 3'-0" AWAY FROM WALL
PA	SPEAKER (CEILING)
SP2	SPEAKER (BRACKET MOUNTED)
	EXTERIOR WALL PACK
C1	EXTERIOR WALL SCONCE
C2	EXTERIOR DIAMOND LIGHT FIXTURE
D5	RECESSED DOWNLIGHT
	STRAIGHT-SIDED UTILITY CHANNEL UTILITY FLUORESCENT STRIP LIGHT
G4	NEW G-4 PENDANT. CENTER OVER BOOTH TOPS MOUNT 60" A.F.F.
	SPOT LIGHT W/ MONOPOINT MOUNT
K1-4	LIGHT TRACK (LENGTH AND HEADS AS SHOWN ON DRAWING) - SEE 05/A7.4
LP-22	RESTROOM VANITY WALL LIGHT
X1	EXIT LIGHT
X2	EMERGENCY LIGHT (CEILING MOUNTED)
	FIRE STROBE / HORN
	RETURN AIR GRILLE
☒	EXISTING SUPPLY DIFFUSSER TO REMAIN
☒	EXISTING SUPPLY DIFFUSSER TO BE RELOCATED
	CEILING OUTLET
●	SPRINKLER HEAD
T.V.	TELEVISION (BRACKET MOUNTED)

NOTE: REFER TO MECH. AND ELECT. DRAWINGS FOR FIXTURE SPECIFICATIONS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2985
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

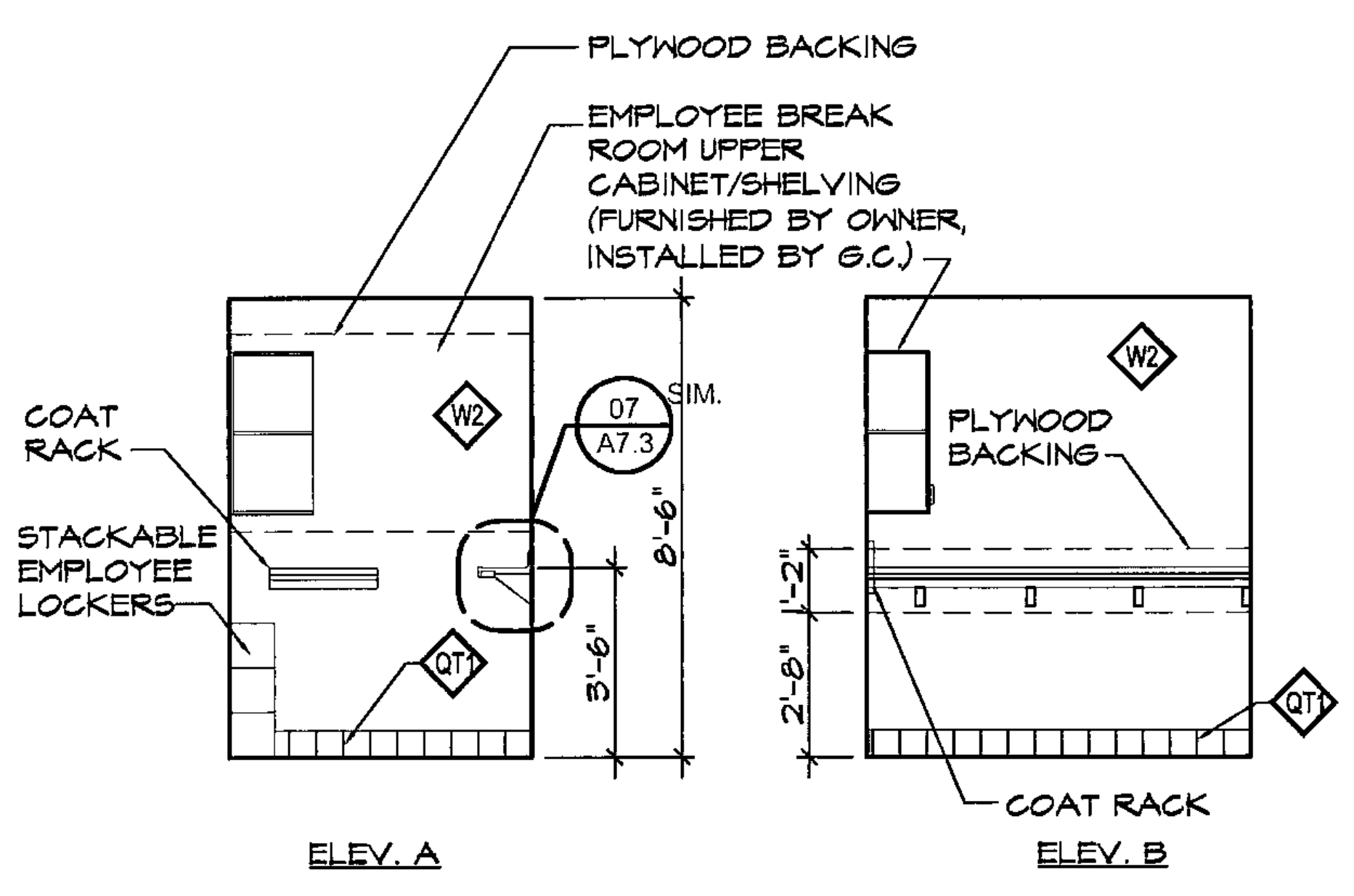
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
2	6/25/10	OWNER CHANGES	LRE

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: RK
ISSUE DATE: 04/07/10

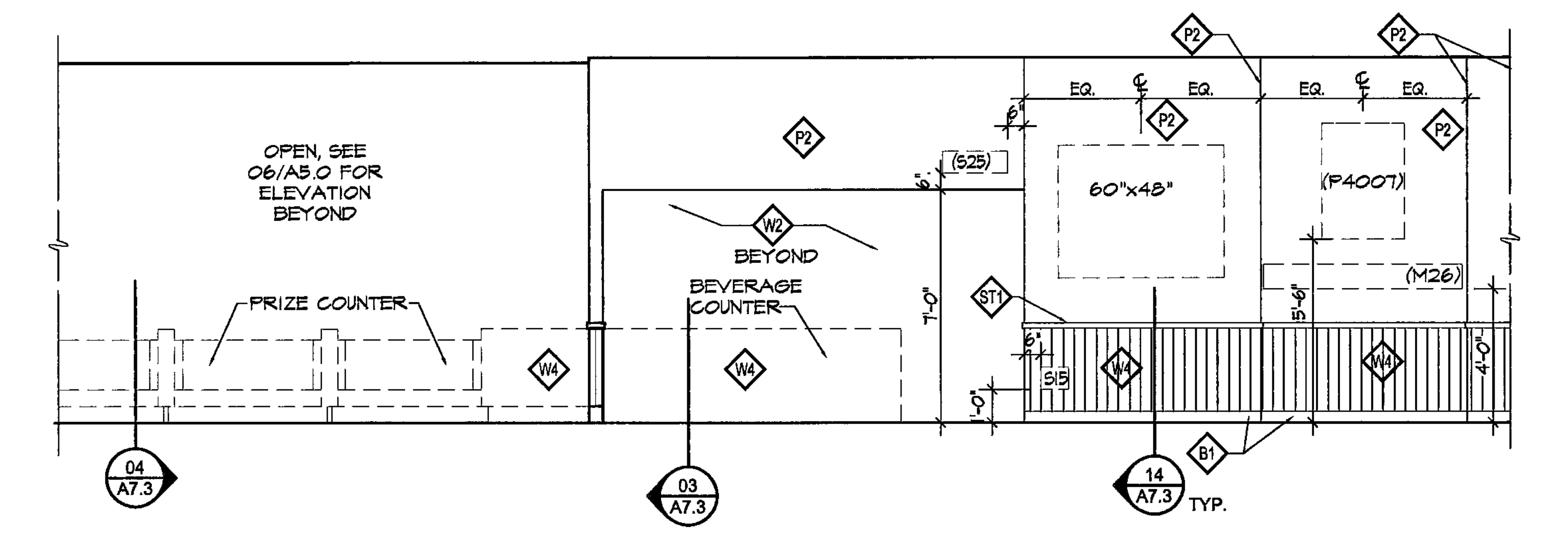
REFLECTED CEILING PLAN

A3.0


PLYWOOD BACKING
EMPLOYEE BREAK ROOM UPPER CABINET/SHELVING (FURNISHED BY OWNER, INSTALLED BY G.C.)
COAT RACK
STACKABLE EMPLOYEE LOCKERS
W2
07 A7.3 SIM.
8'-6"
3'-6"
2'-8"
1'-2"
QT1
PLYWOOD BACKING
COAT RACK
ELEV. A
ELEV. B

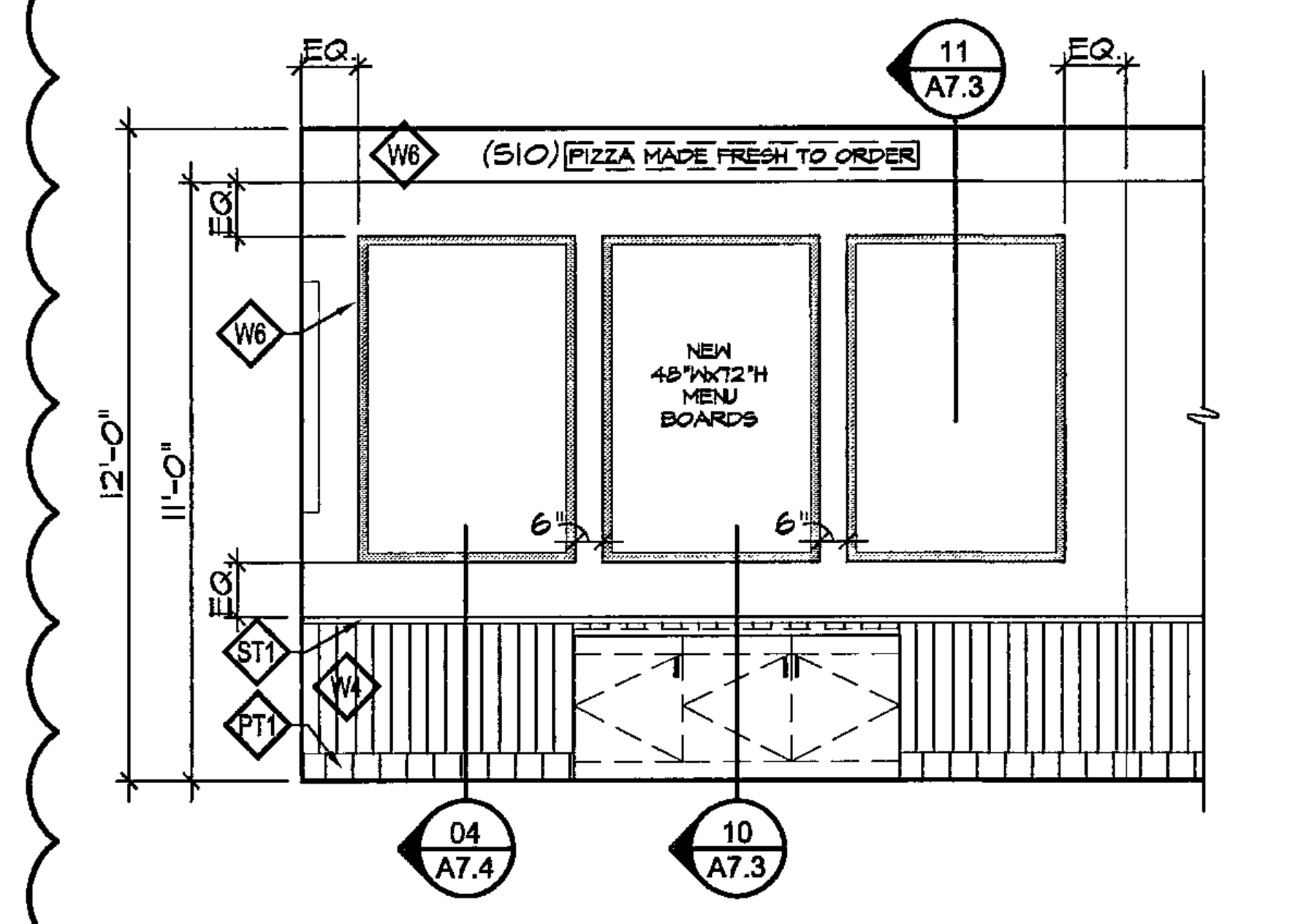
12 EMPLOYEE BREAK ROOM ELEVATIONS

SCALE: 1/4" = 1'-0"



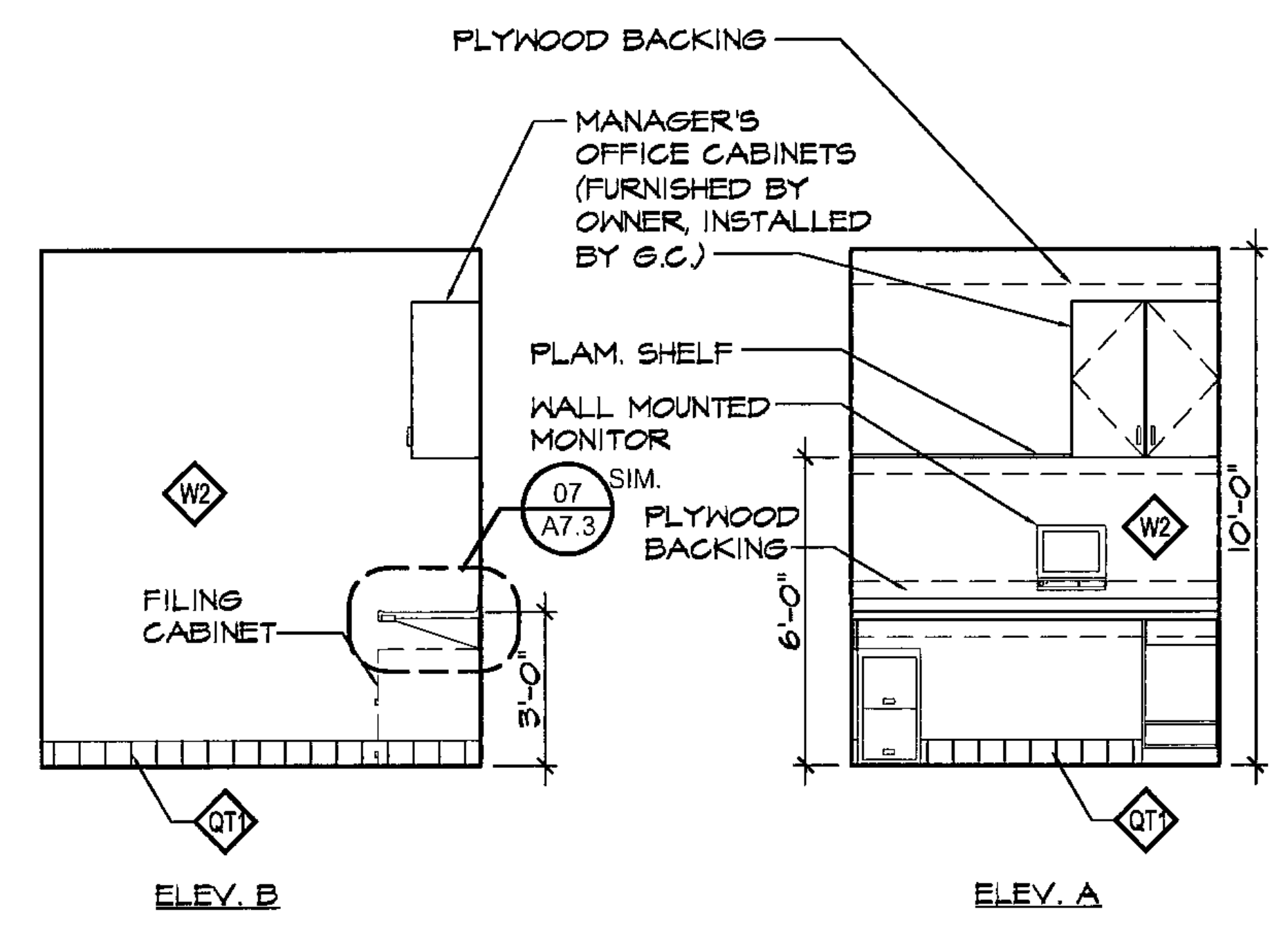
05 BEVERAGE & PRIZE COUNTER ELEVATION

SCALE: 1/4" = 1'-0"



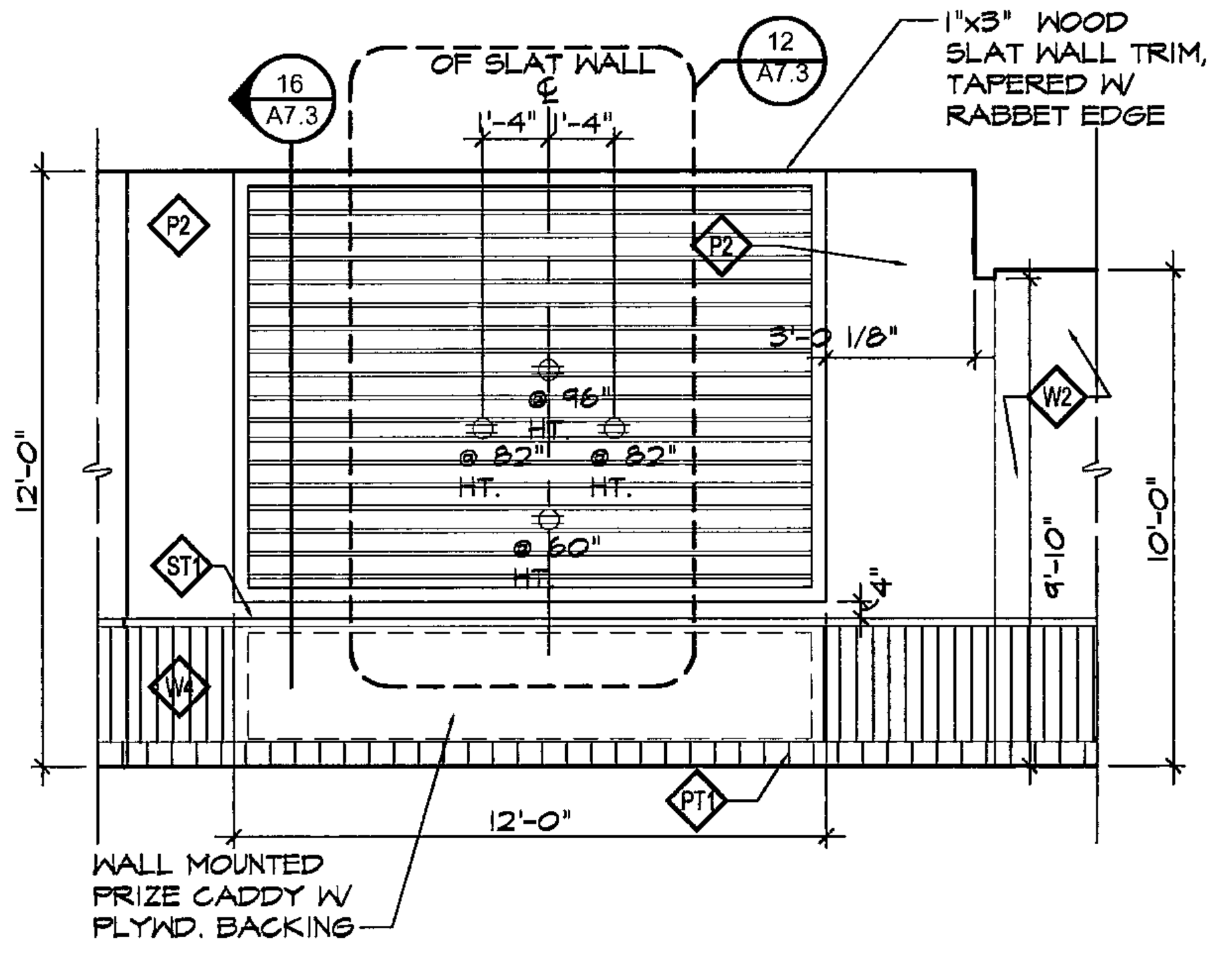
01 ORDER COUNTER ELEVATIONS

SCALE: 1/4" = 1'-0"



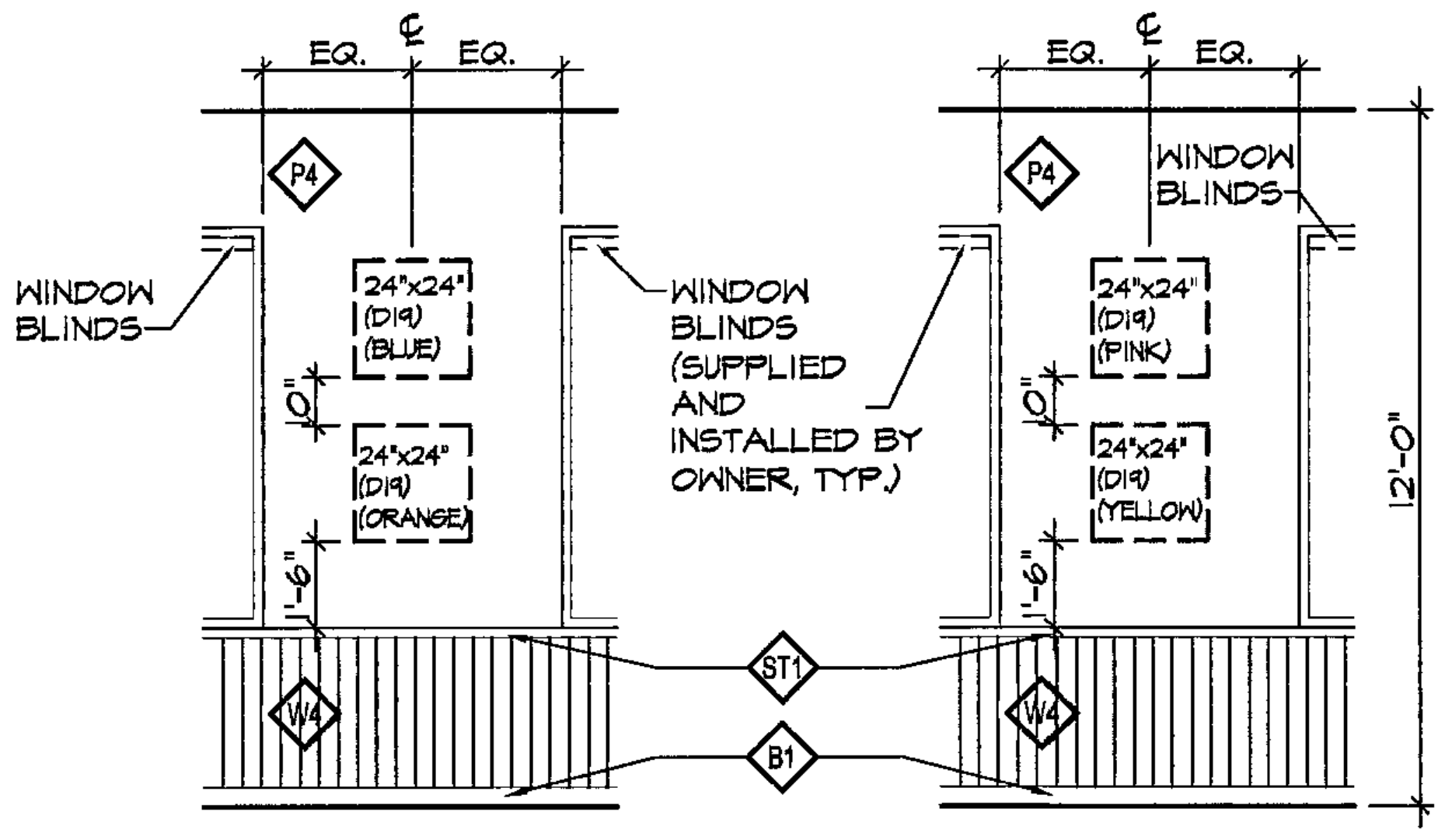
13 OFFICE ELEVATIONS

SCALE: 1/4" = 1'-0"



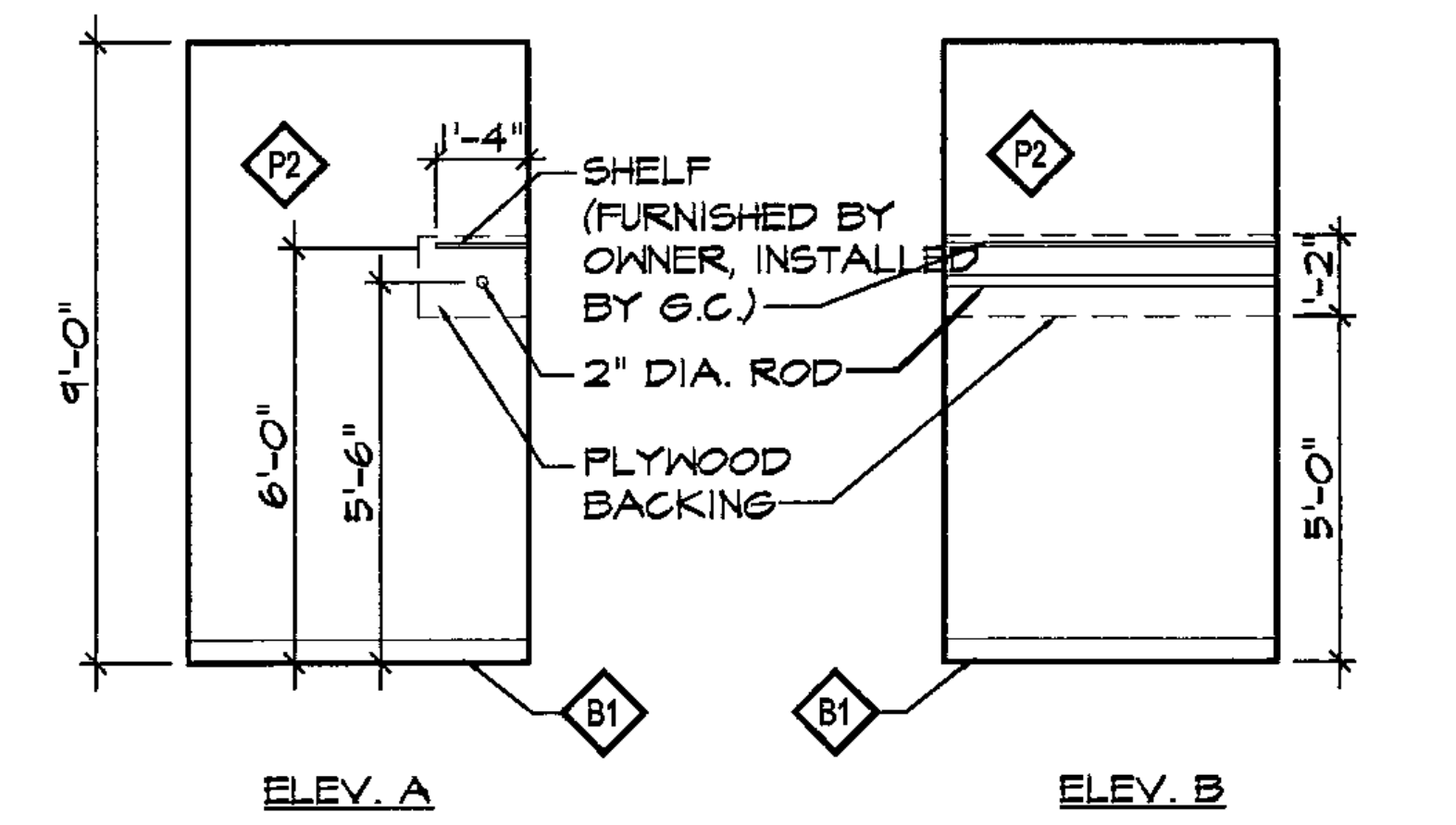
06 SLAT WALL ELEVATION

SCALE: 1/4" = 1'-0"



02 FRONT SKILLS WALL ELEVS.

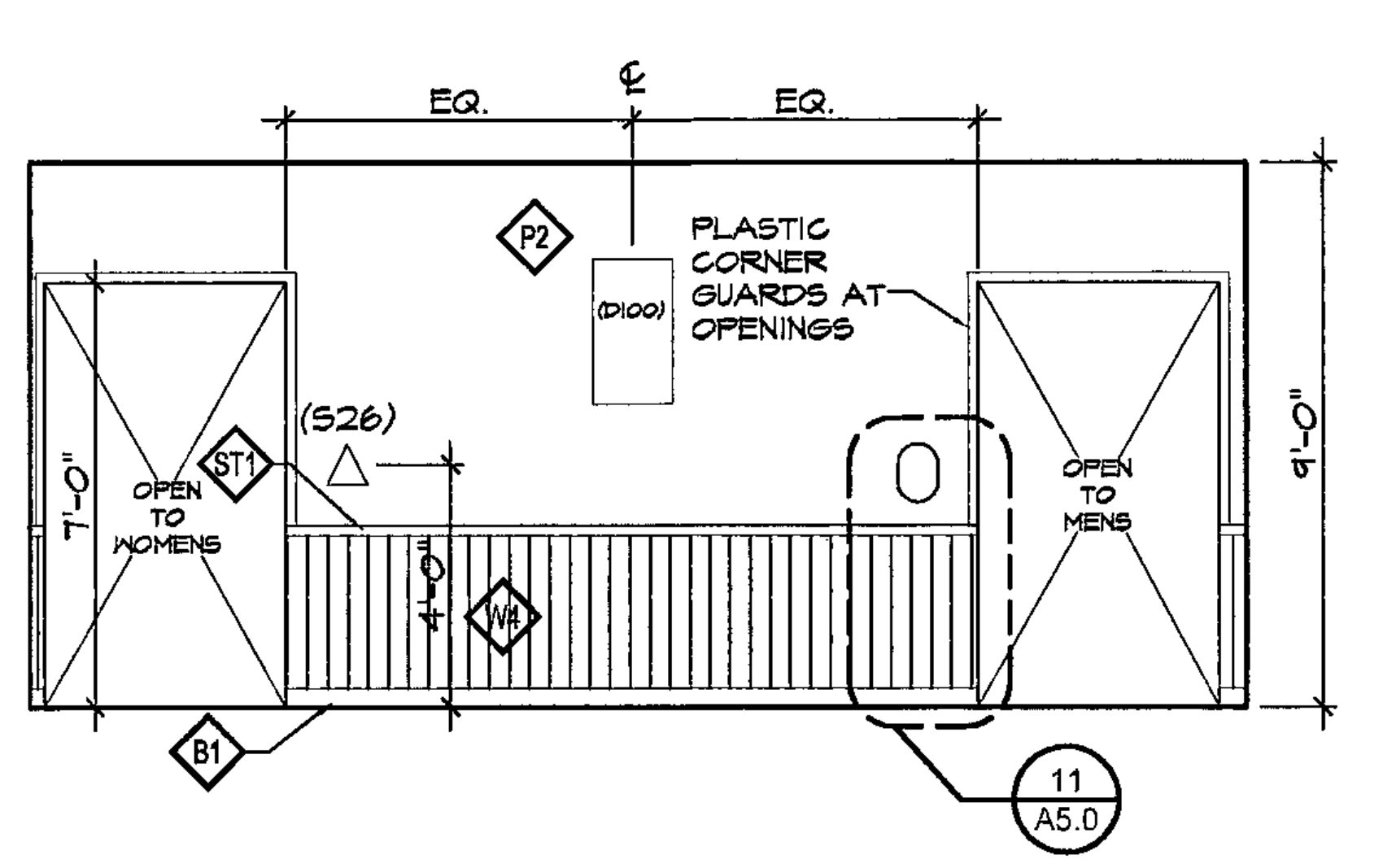
SCALE: 1/4" = 1'-0"



14 COSTUME ELEVATIONS

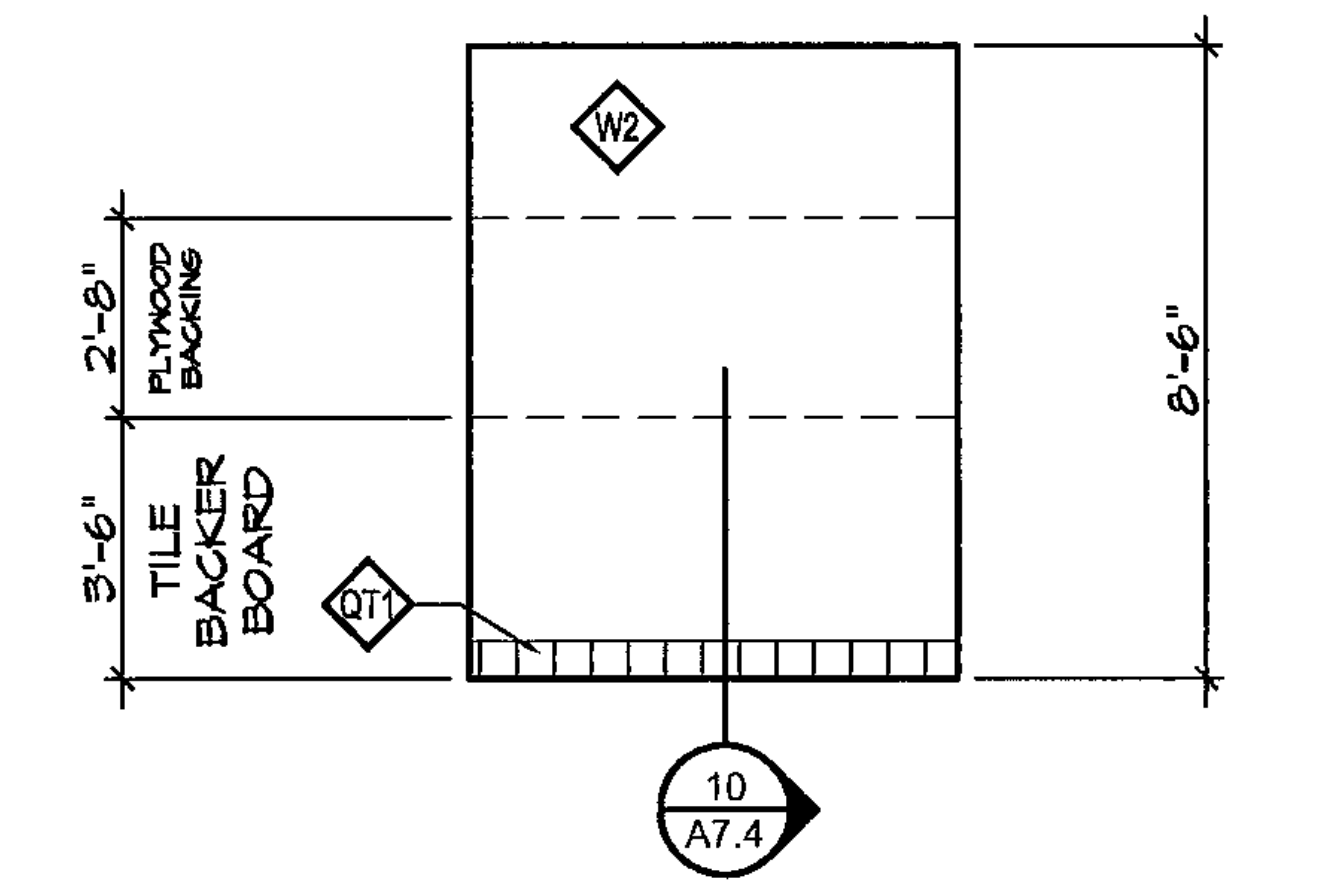
SCALE: 1/4" = 1'-0"

NOTE: COORDINATE EXACT ADA SIGNAGE LOCATIONS W/ LOCAL JURISDICTION



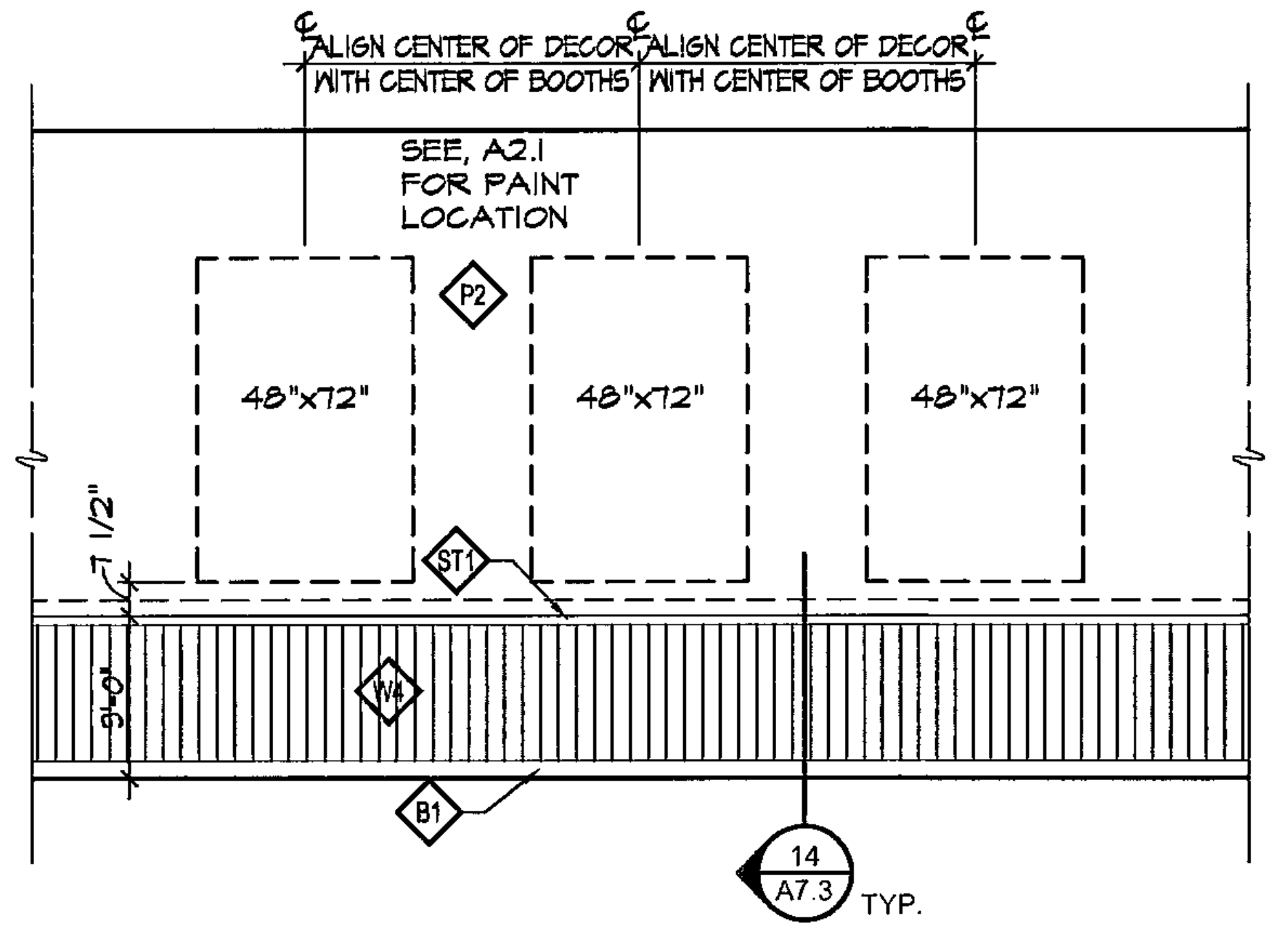
10 RESTROOM VESTIBULE ELEVATION

SCALE: 1/4" = 1'-0"



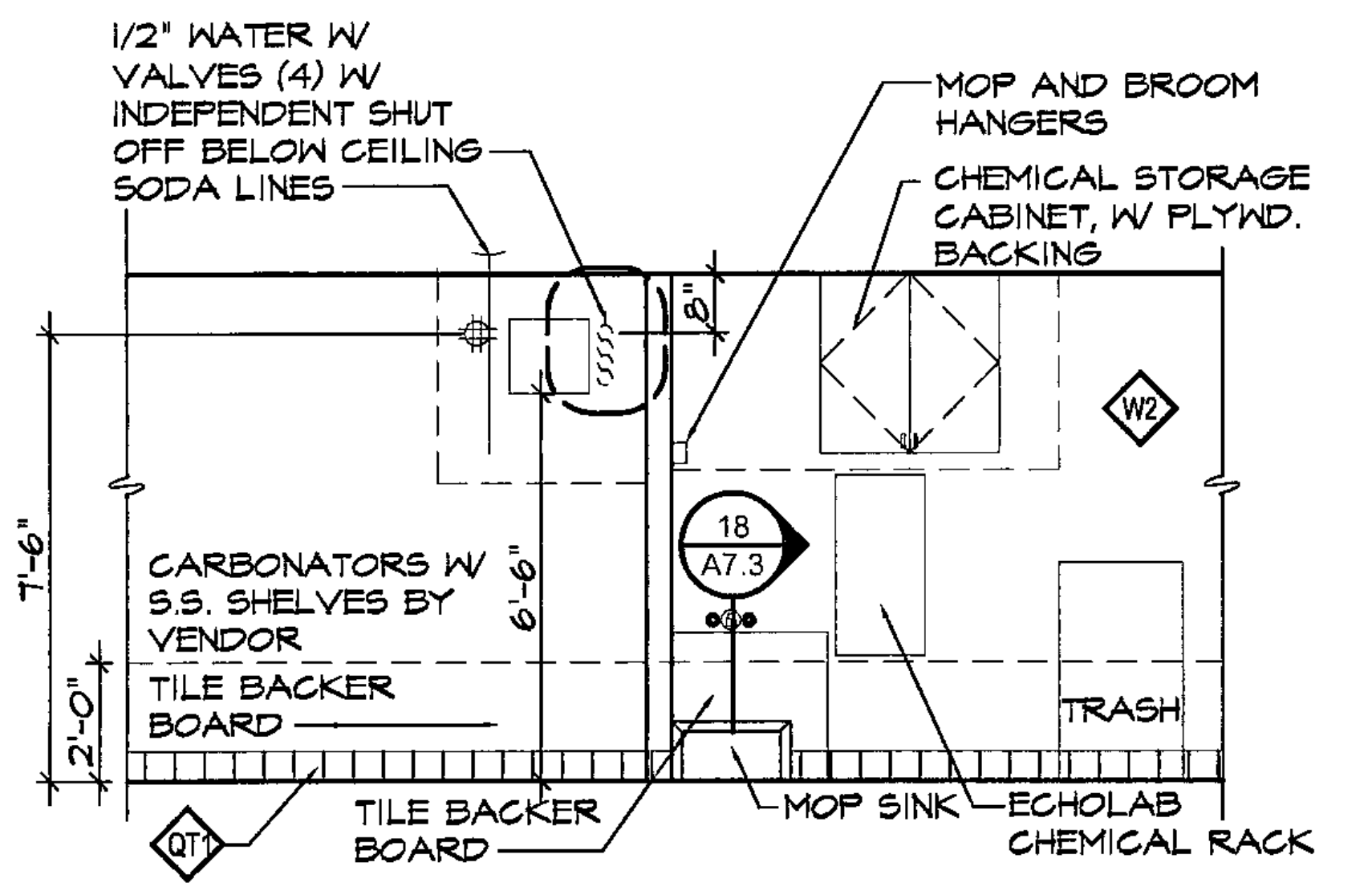
07 TYPICAL KITCHEN ELEVATION

SCALE: 1/4" = 1'-0"


ALIGN CENTER OF DECOR WITH CENTER OF BOOTHS
ALIGN CENTER OF DECOR WITH CENTER OF BOOTHS
SEE A2.1 FOR PAINT LOCATION
P2
48"x72"
48"x72"
48"x72"
ST1
W4
B1
14 A7.3 TYP.

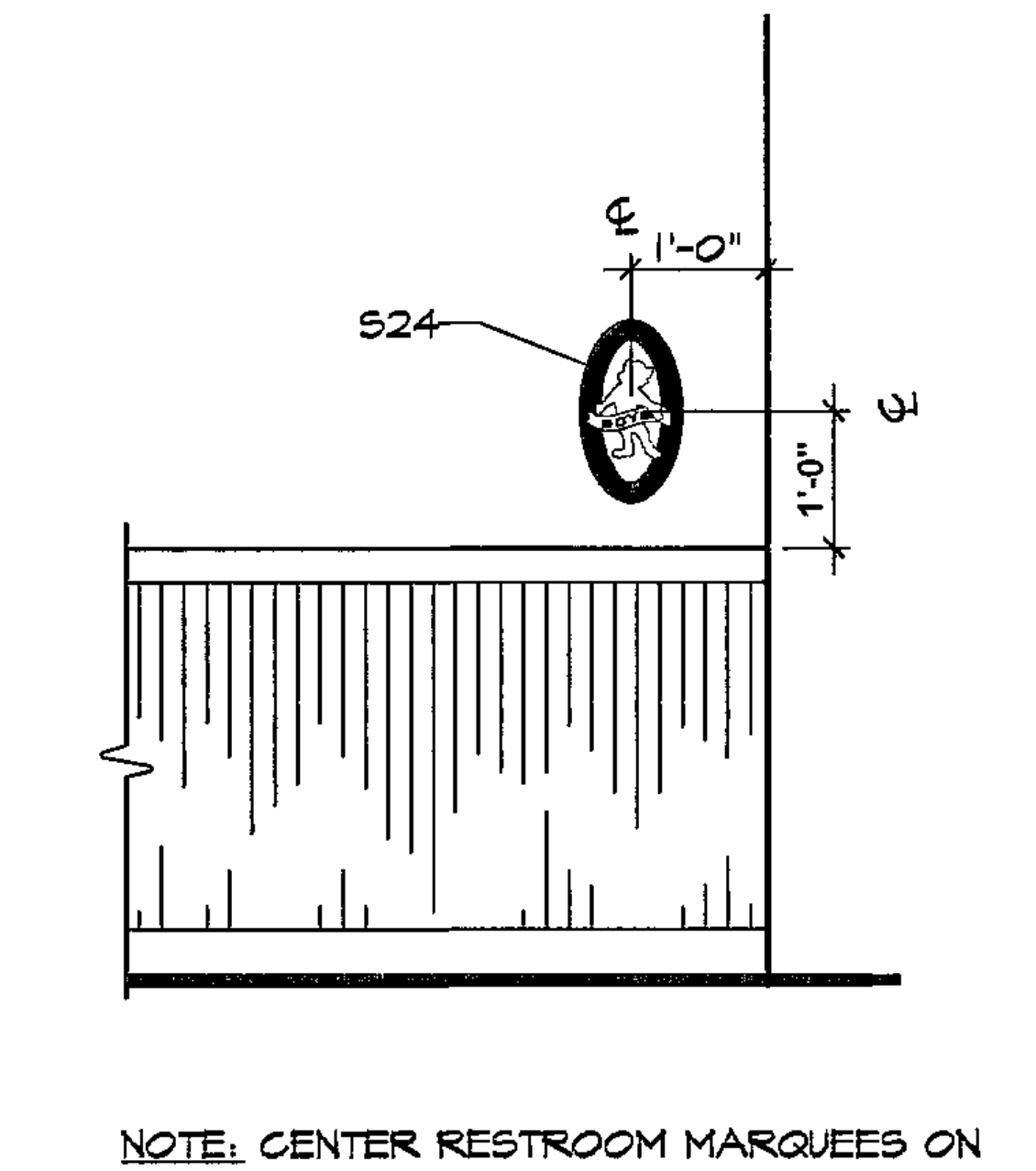
03 TYP. DECOR @ SHOWROOM ELEVS.

SCALE: 1/4" = 1'-0"


1/2" WATER W/ VALVES (4) W/ INDEPENDENT SHUT OFF BELOW CEILING
SODA LINES
MOP AND BROOM HANGERS
CHEMICAL STORAGE CABINET, W/ PLYWD. BACKING
W2
18 A7.3
CARBONATORS W/ S.S. SHELVES BY VENDOR
TILE BACKER BOARD
7'-6"
2'-0"
6'-6"
TRASH
QT1
TILE BACKER BOARD
MOP SINK
ECHOLAB CHEMICAL RACK

15 MOP SINK\SODA LINE ELEVATION

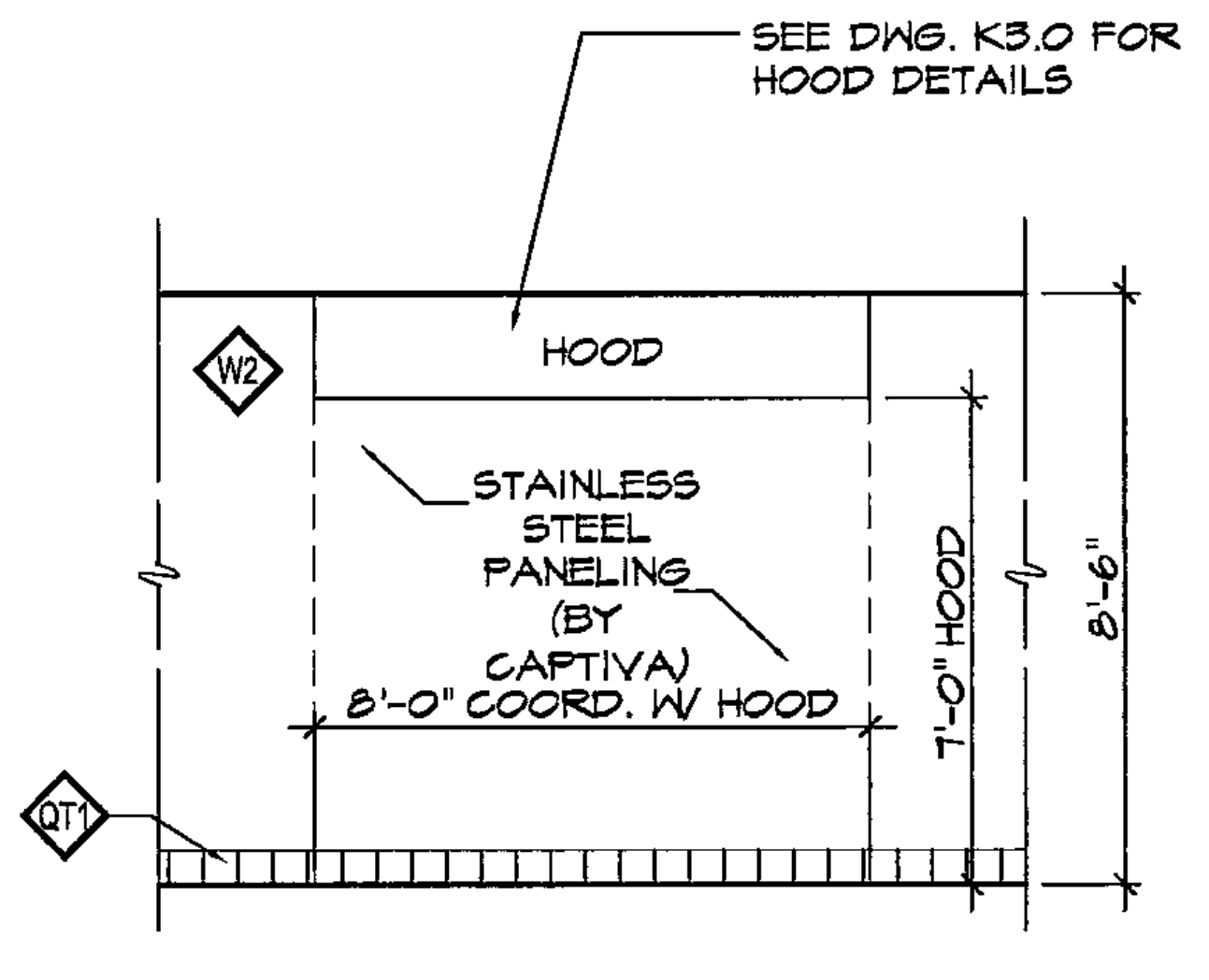
SCALE: 1/4" = 1'-0"



NOTE: CENTER RESTROOM MARQUEES ON HEADER, OVALS LOCATED PER DETAIL, WOMEN RESTROOM SIM.

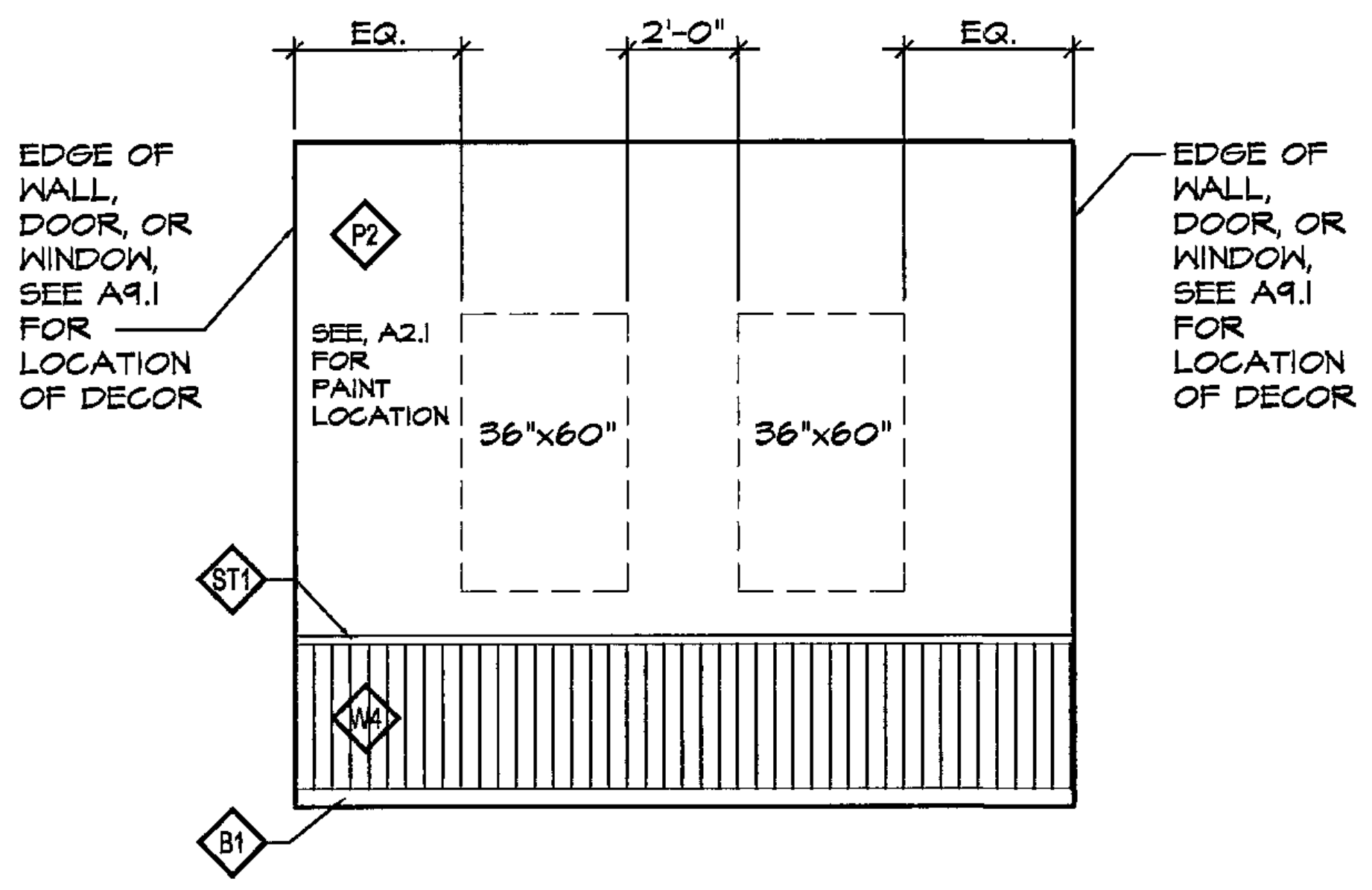
11 RESTROOM SIGNAGE ELEVATION

SCALE: N.T.S.


SEE DWG. K3.0 FOR HOOD DETAILS
HOOD
W2
STAINLESS STEEL PANELING (BY CAPTIVA)
8'-0" COORD. W/ HOOD
7'-0" HOOD
8'-6"
QT1

08 TYPICAL OVEN ELEVATION

SCALE: 1/4" = 1'-0"


EQ. 2'-0" EQ.
EDGE OF WALL, DOOR, OR WINDOW, SEE A9.1 FOR LOCATION OF DECOR
P2
SEE A2.1 FOR PAINT LOCATION
36"x60"
36"x60"
ST1
W4
B1

04 TYP. DECOR @ SKILLS ELEV.

SCALE: 1/4" = 1'-0"

△2

WALL FINISH SPECIFICATIONS

1. PAINT FINISH: ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
2. PAINT SPECIFICATIONS: FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEC MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
3. ALL PRODUCTS LISTED: ARE AVAILABLE THRU SHERWIN WILLIAMS. NATIONAL ACCOUNT MANAGER, JOHN W GASTON (214-553-3940 - OFFICE) (CELL 214-728-6696) D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
4. P-1 HOLLYBERRY RED - USED ON EXPOSED METAL COLUMNS METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.
   METAL PAINT - CUSTOM FORMULA:
   BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING:
   844 COLORANTS - QV-40, QR-32, TW-16. THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES.
5. P-2 WHITE WOOL SW1354 - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY/APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS)
   NOTE: ON FIRE EXIT DOORS AND FRAMES
   PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.)
6. P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
7. P-4 CORSICAN PURPLE SW1825 - FOR ACCENT GYPSUM WALL. DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL. (TWO COATS)
8. P-5 FLAT BLACK - USED ON INTERIOR BACK WALL OR ANIMATED SHOW PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
9. P-6 LATTE SW6108 - RESTROOM WALLS
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
10. P-7 CEILING EXTRA WHITE SW7006 - RESTROOM CEILING & SHELVING / KITCHEN DOORS / FRAMES
   PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
11. ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.) -
   1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN, S 64 SERIES (CHERRY)-S64R6WITH 4 OZ. #844 "RED OXIDE"
   2ND COAT - SHERWIN WILLIAMS SHER-WOOD VINYL SEALER 24% - T67F3.
   3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB - ACRYLIC LACQUER, T57C15 4TH COAT - SAME AS THIRD COAT.
12. W-2 F.R.P. PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
13. W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-52V "MORNING HAZE"
14. W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"
15. W-6 WALL COVERING (ORDER WALL) - SYMPHONY WALLCOVERING SAMBA BROWNSTONE

△2

WALL FINISH LEGEND

PORCELAIN FLOOR TILE

PT1	PT-1 TYPE:FLOOR TILE SIZE: 12"x12" TILES: CC19CEC-12x12 GRANTI ABR., CC19CCB-6x12 GRANITI, CC19IC-1x6 GRANITI GROUT: MFGR. PBG1925 "PEWTER"

QUARRY FLOOR TILE

QT1	TYPE: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS) SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE -SUMMITVILLE SV10Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"

RESILENT BASE

B1	4" HIGH COVE - BURKE #217 - CHARCOAL

PAINT / STAIN FINISHES

P1	HOLLYBERRY RED
P2	WHITE WOOL
P3	WINDSOR GRAY
P4	CORSICAN PURPLE
P5	FLAT BLACK
P6	LATTE
ST1	INTERIOR OAK - (CHERRY STAIN)

WALL FINISHES

W2	.09 THK EMBOSSED FIBERGLASS REINFORCED PANELS KEMLITE - FRP WHITE
W4	MORNING HAZE MARLITE (MARLITE 5446-52 "MORNING HAZE")
W5	DISPLAY WALL - NO. 2764 "CRYSTAL GREY"
W6	ORDER WALL - SYMPHONY WALLCOVERING BROWNSTONE

△2 NOTE: SEE DRAWING A2.1 FOR INTERIOR ELEVATION REFERENCE LOCATIONS.

SEE DRAWING A9.0 FOR DECORATION AND SIGNAGE SCHEDULES.

REGISTRATION SEAL

FREDERICK J. GOGLIA REGISTERED ARCHITECT No. 2693 ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

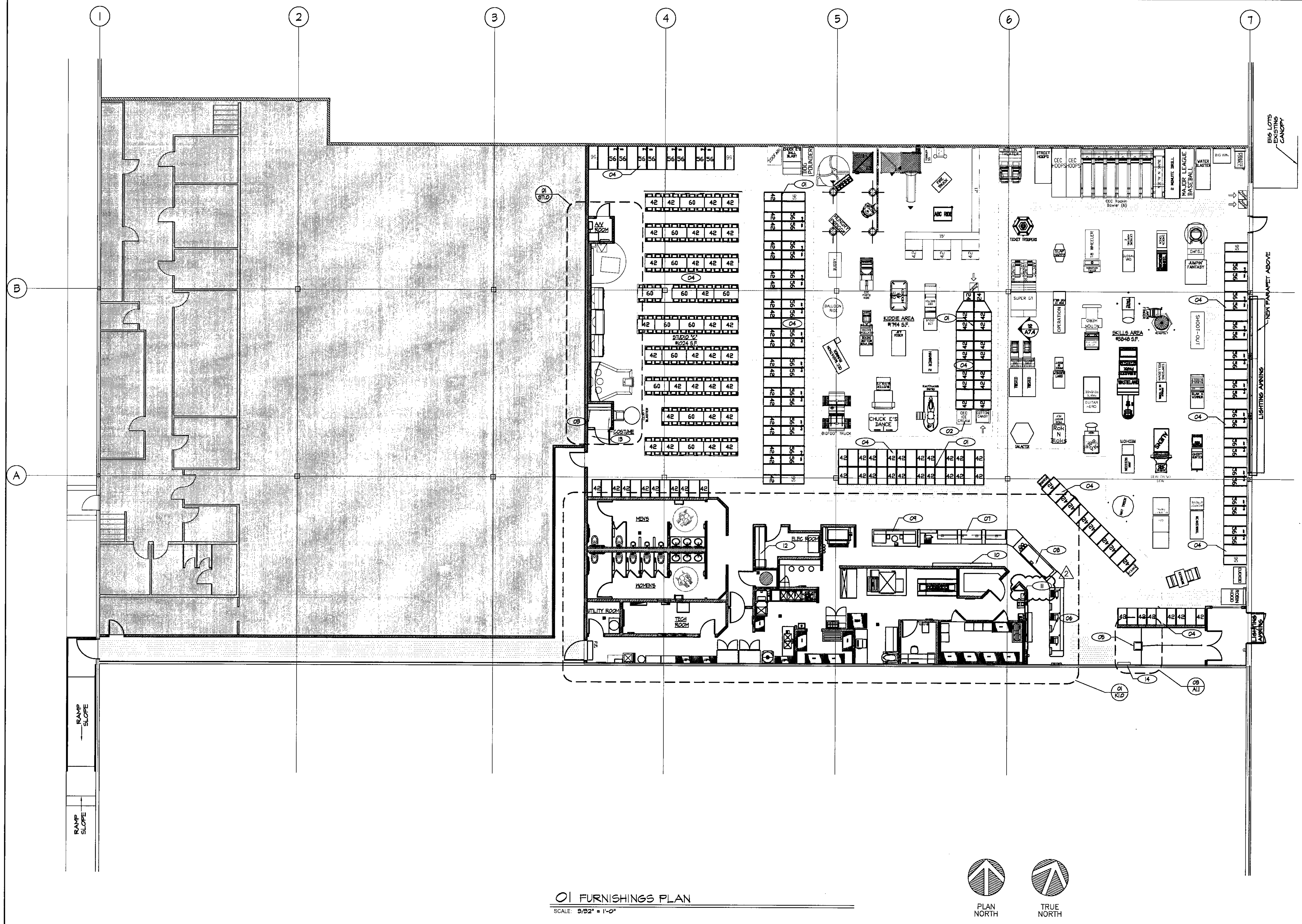
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
△2	7/6/10	OWNER CHANGES	AV

PROJECT NO: 090899
DRAWN BY: AV
CHECKED BY: RK
ISSUE DATE: 04/07/10

INTERIOR ELEVATIONS

A5.0



01 FURNISHINGS PLAN

SCALE: 3/32" = 1'-0"

FURNISHINGS PLAN KEYNOTES

EXAMPLE: A9.24= (24)

A9.01 BOOTH PANEL DIVIDERS: PLASTIC LAMINATE DIVIDING BOOTH PANELS TO BE FABRICATED BY THE BOOTH MANUFACTURER AND INSTALLED BY THE G.C.

A9.02 VENDING ICE-CREAM MACHINE: ICE-CREAM MACHINES TO HAVE DEDICATED POWER CIRCUIT, VERIFY POWER SUPPLY REQUIREMENTS PRIOR TO INSTALLATION.

A9.03 COSTUME ROD: COORDINATE LOCATION OF COSTUME COAT HANGING ROD AND SHELF IN KITCHEN AREA WITH C.E.C.. PROVIDE BLOCKING IN WALL AS REQUIRED.

A9.04 FURNITURE: ALL BOOTH FURNITURE (INCLUDING TABLES AND CHAIRS), ARE TO BE INSTALLED AS DIRECTED BY CEC AND AS SPECIFIED BY CEC ON FINAL FURNITURE MARK-UP PLAN AS INDICATED ON CONSTRUCTION ISSUE DRAWINGS.

A9.05 KID CHECK STANCHION: KID CHECK STANCHION TO BE FURNISHED BY CEC AND INSTALLED BY THE G.C. SEE DETAILS 19/A7.3 AND 03/A7.4.

A9.06 ORDER DESK MILLWORK: ORDER DESK MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAIL 02/A7.3.

A9.07 MERCHANDISE MILLWORK: MERCHANDISE MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAIL 04/A7.3.

A9.08 SALAD BAR MILLWORK: SALAD BAR MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAILS 01/A7.3 AND 06/A7.3.

A9.09 BEVERAGE BAR MILLWORK: BEVERAGE BAR MILLWORK TO BE FABRICATED BY OWNER'S MILLWORK COMPANY (MIDWEST) AND INSTALLED BY THE G.C. - SEE DETAILS 03/A7.3 AND 09/A7.3.

A9.10 SLAT WALL MILLWORK: SLAT WALL MILLWORK TO BE FABRICATED BY AND INSTALLED BY THE G.C. - SEE DETAILS 12/A7.3 AND 16/A7.3.

A9.11 BEER TAP AND TRAY: BEER TAP AND TRAY EQUIPMENT TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C. - SEE DETAIL 14/A7.3.

A9.12 TECH COUNTER: PLASTIC LAMINATE TECH COUNTER TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE G.C. - SEE DETAIL 07/A7.3.

A9.13 MIRROR: INSTALL OWNER PROVIDED 18" X 48" GLASS MIRROR ON INSIDE OF COSTUME ROOM DOOR.

A9.14 MARKETING BOARD: INSTALL OWNER PROVIDED MARKETING BOARD. PROVIDE POWER PER ELECTRICAL DWGS.

GENERAL NOTES

1. DECOR: G.C. TO INSTALL NEW ARTWORK, DECOR AND COAT HOOKS AS INDICATED. G.C. TO INSTALL MATCHING CORNER GUARDS AS NEEDED. FINAL LOCATION TO BE DETERMINED BY C.E.C. ENTERTAINMENT INC. PRIOR TO CONSTRUCTION.
2. SAFETY ITEMS: INSTALL FIRE EXTINGUISHERS, ALARMS, PA CONTROLS, MOTION DETECTORS, EMERGENCY LIGHTING, THERMOSTATS, ETC., AS REQUIRED BY LOCAL FIRE AND /OR BUILDING AUTHORITIES. INSTALLATION OF NEW ART WORK AND DECOR SHALL NOT BE IN CONFLICT. UNSPECIFIED LOCATIONS FOR NON LIFE SAFETY ITEMS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. UNSPECIFIED LOCATIONS FOR LIFE SAFETY ITEMS SHALL BE VERIFIED WITH LOCAL FIRE AND /OR BUILDING AUTHORITIES PRIOR TO INSTALLATION.
3. REFERENCE DETAIL 12/A7.4 FOR TYPICAL BOOTH DIVIDER PANELS.
4. TABLE TOP SPLASH IS REQUIRED AT ALL LOCATIONS W/O CENTER BOOTH DIVIDER PANELS.
5. BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO ORDERING.

CALCULATIONS

SEATING - PROPOSED SEATING COUNT

LOCATION	COUNT
SHOWROOM	270
KIDDIE	120
SKILLS	108
TOTAL SEATING	508

FURNITURE LEGEND

NOTE:
ON CENTER DIMENSIONS ARE FROM BOOTH BACK TO BOOTH BACK.

▨ SHADING INDICATES PATHWAY.

BOOTH SEATING & TABLE.

FREESTANDING TABLE & CHAIR

TABLES & CHAIRS

42"	60"
4 SEATER	6 SEATER

EQUIPMENT

- WALL MOUNTED STROBE - MOUNT AS REQUIRED BY CODE AND LOCAL FIRE DEPARTMENT
- WALL MOUNTED THERMOSTAT @ 52" A.F.F.
- FEC RECESSED WALL MOUNT FIRE EXTINGUISHER.
- WALL MOUNT FIRE EXTINGUISHER.
- EMERGENCY PULL SWITCH
- FIRE ALARM CONTROL PANEL

SEATING BOOTHS

24"	36"	42"&48"	56"&60"	42"x24"	60"x42"	48"x24"	56"x42"
2 SEATER	4 SEATER	4 SEATER	6 SEATER	3 SEATER	5 SEATER	3 SEATERS	5 SEATER

REGISTRATION SEAL

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FREDERICK J. GOGLIA
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1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
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www.arcv.com

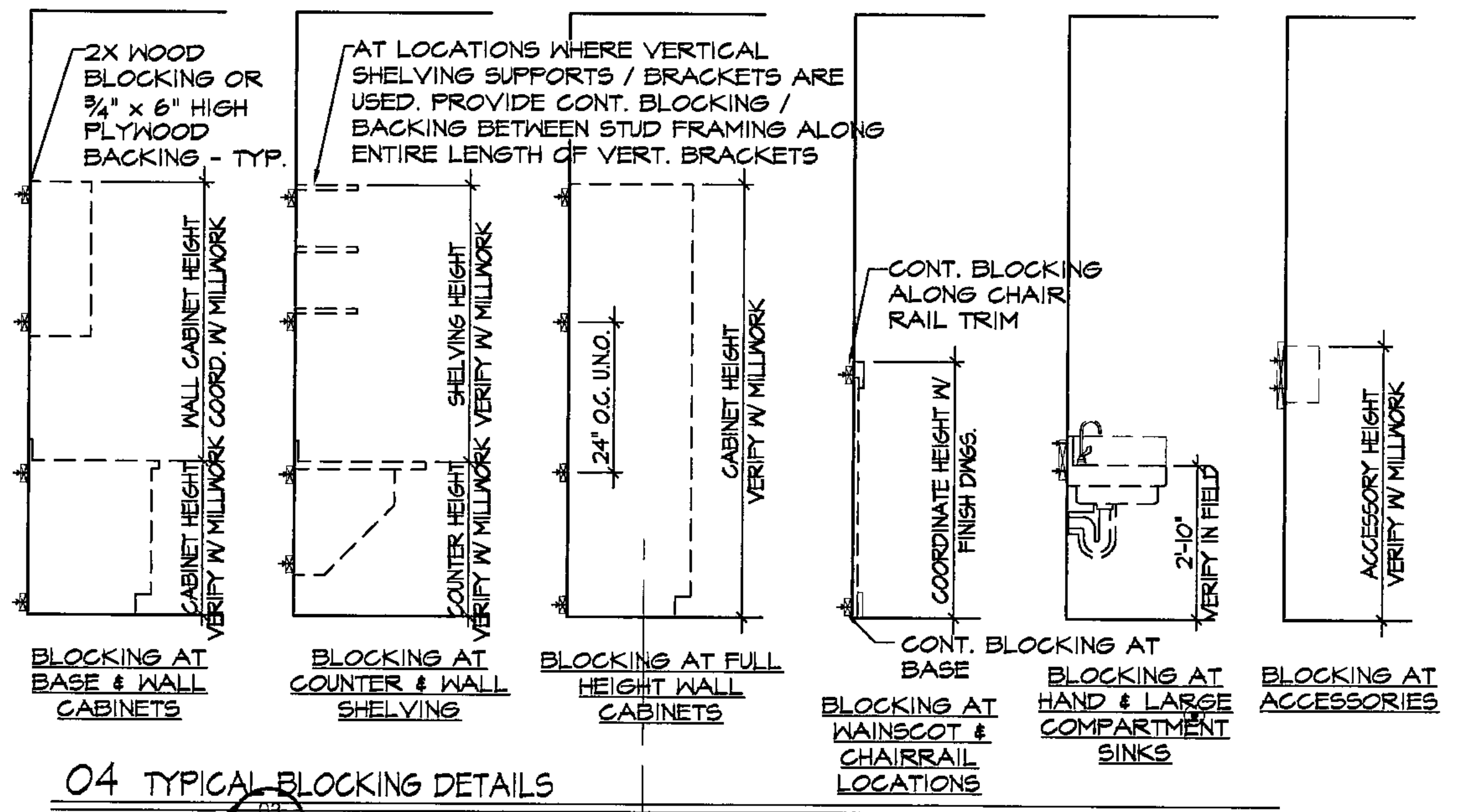
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
2	7/6/10	OWNER CHANGES	LRE

PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: JDJ
ISSUE DATE: 04/07/10

FURNISHINGS PLAN

A9.0


2X WOOD BLOCKING OR ¾" x 6" HIGH PLYWOOD BACKING - TYP.
AT LOCATIONS WHERE VERTICAL SHELVING SUPPORTS / BRACKETS ARE USED. PROVIDE CONT. BLOCKING / BACKING BETWEEN STUD FRAMING ALONG ENTIRE LENGTH OF VERT. BRACKETS
WALL CABINET HEIGHT
VERIFY W/ MILLWORK COORD. W/ MILLWORK
CABINET HEIGHT
SHELVING HEIGHT
VERIFY W/ MILLWORK
COUNTER HEIGHT
24" O.C. U.N.O.
CABINET HEIGHT
VERIFY W/ MILLWORK
CONT. BLOCKING ALONG CHAIR RAIL TRIM
COORDINATE HEIGHT W/ FINISH DWGS.
CONT. BLOCKING AT BASE
2'-10"
VERIFY IN FIELD
ACCESSORY HEIGHT
VERIFY W/ MILLWORK
BLOCKING AT BASE & WALL CABINETS
BLOCKING AT COUNTER & WALL SHELVING
BLOCKING AT FULL HEIGHT WALL CABINETS
BLOCKING AT WAINSCOT & CHAIRRAIL LOCATIONS
BLOCKING AT HAND & LARGE COMPARTMENT SINKS
BLOCKING AT ACCESSORIES

04 TYPICAL BLOCKING DETAILS

SCALE: NTS

BLOCKING NOTES

1. BLOCKING CONDITIONS SHOWN DO NOT ACCOUNT FOR ALL CONDITIONS THAT MAY EXIST ON THE PROJECT. THE CONTRACTOR IS TO ACCOUNT FOR ALL BLOCKING INDICATED IN ENTIRE CONTRACT DOCUMENT PACKAGE OR SPECIFICALLY REQUIRED BY THE MANUFACTURERS OF SPECIFIED PRODUCTS AND MATERIALS.

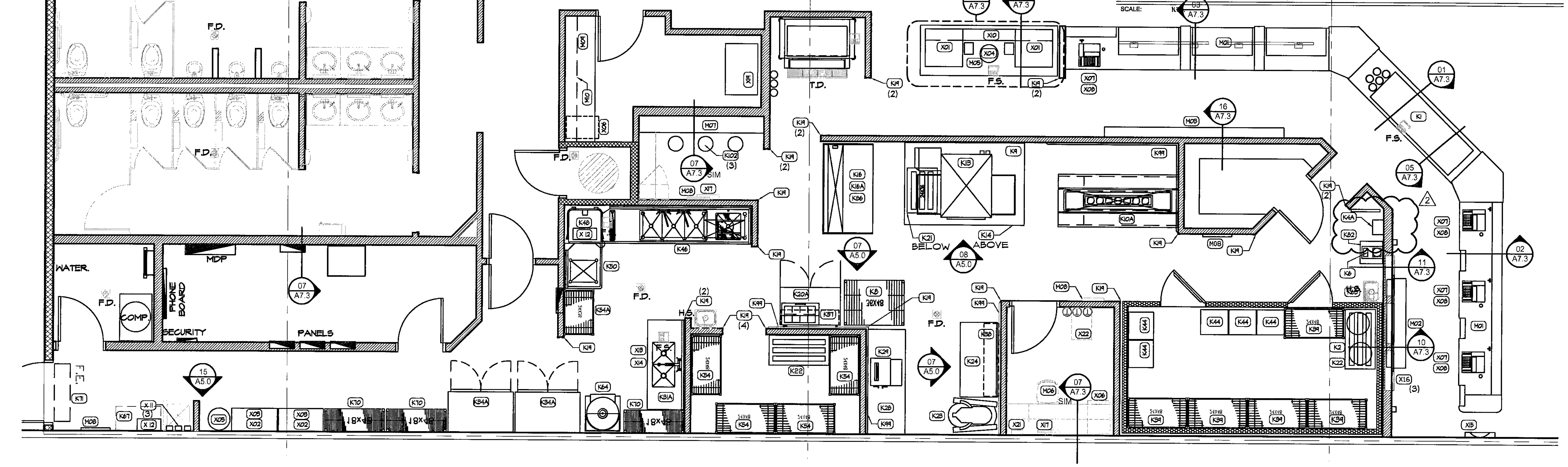
2. THE CONTRACTOR SHALL WALK THE SITE TO FINALIZE ALL LOCATIONS OF BLOCKING IN WALLS / CEILING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD.

3. COORDINATE THE EXACT REQUIRED LINEAR FOOTAGE AND LOCATIONS OF BLOCKING WITH EACH SPECIFIC FIXTURE, ACCESSORY, EQUIPMENT, CASEWORK, AND MILLWORK. THE CONTRACTOR IS TO COORDINATE WITH MILLWORK ON ALL ITEMS TO BE SUPPLIED AND / OR INSTALLED BY CEC.

4. WHERE EXACT LOCATION OF ITEM REQUIRING BLOCKING WILL NOT BE DETERMINED UNTIL AFTER INSTALLATION OF THE GYPSUM WALLBOARD, EXTEND BLOCKING A MIN. OF 12" BEYOND EACH SIDE THE ESTIMATED LOCATION OF THE DESIGNATED ITEM AS INDICATED IN THE PLANS OR AS SPECIFIED BY MANUFACTURER.

5. ALL BLOCKING IS TO BE CONTINUOUS ALONG THE FULL LENGTH OF THE ITEM REQUIRING BLOCKING UNLESS NOTED OTHERWISE OR INDICATED BY MANUFACTURER.

6. WHERE SPECIFIC CODE RELATED OR MANUFACTURER LOAD REQUIREMENTS ARE REQUIRED, THE CONTRACTOR IS TO CONFIRM THE INSTALLATION OF THE REQUIRED BLOCKING MEETS OR EXCEEDS THE REQUIREMENTS OF THE CODE.



01 KITCHEN EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

KITCHEN EQUIPMENT SCHEDULE

EQUIPT. NOT USED UNLESS SHOWN ON PLAN OR OTHERWISE NOTED.

O - OWNER K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
P - PLUMBING G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
K1	INSULATED SALAD PAN	CUSTOM FABRICATED (7' LENGTH)	W/ SALAD INSERTS; SUPPLY PVC & CONNECT TO DRAIN	O/M	G	G/P	N/A	-
K2	SECURITY UNIT	METRO MODEL #SECM2448NK3		O/K	G	N/A	N/A	-
K4A	BEVERAGE BEER SYSTEM	GLASTENDER / THRU THE WALL BEER	THROUGH-WALL BEER SYSTEM	O/K	G	N/A	N/A	-
K6	COFFEE BREWER	BUNN-O-MATIC - #CWTF15-2	W/ 1 LOWER WARMER & COFFEE DECANTER	O/K	G	N/A	N/A	-
K8	PROOFING RACK	METRO/SUPER ERECTA SHELVING	24"x48" WITH CASTERS	O/K	G	N/A	N/A	-
K9	SS WALL PANELING	CUSTOM FABRICATED	SS TRIM INSTALLED UP TO BOTTOM OF HOOD AND MAKE TABLE	O/K	V	V/E/P	V	X
K10A	REFRIG. PIZZA MAKE TABLE	RANDELL MODEL #51395PR	2 SIDED REFRIGERATED PIZZA TABLE W/ TICKET MINDER AND NIGHT COVERS AND CASTERS	O/K	G	G	G	-
K13	DBL. STACK PIZZA OVEN	MIDDLEBY MARSHALL - #PS640-1	GAS/ELECTRICAL CONNECTION - 1 ELECT OUTLET PER UNIT (2) TOTAL	O/K	G	G	N/A	
K14	EXHAUST HOOD	CAPTIVE AIRE 8'-0" LONG x 72" DEEP	INCLUDES CURB; DUCTWORK BY G.C.	O/K	G	N/A	N/A	-
K16	SS CUT TABLE	CUSTOM FABRICATED	72" LENGTH W/ PASS THRU, TICKET MINDER AND OUTLET @72"A.F.F.	O/K	G	N/A	N/A	-
K16A	FOODWARMER	HATCO GLO-RAY #GRAH-60	TUBULAR METAL HEATER ROD					-
K19	SS CORNER GUARDS	CUSTOM FABRICATED	CUT TO FIT APPLICATION IN THE FIELD / G.C. TO PROVIDE EXACT COUNT TO FABRICATOR	O/K	G	G	G	-
K20A	REFRIG. SANDWICH TABLE	TRUE FOOD SERVICE - #TSSU-48-8	WORK TABLE W/ CASTERS, 48 1/4x30x42 9/16	O/K	G	G	G	-
K21	DUNNAGE RACK	NEW AGE MODEL #6008	24"x36" AT OVEN	O/K	G	G/E	N/A	-
K22	DUNNAGE RACK	NEW AGE MODEL #6009	24"Wx48"Lx12"H AT DRY STORAGE & COOLER	O/K	G	G/E	N/A	-
K23	DOUGH MIXER	HOBART LEGACY PIZZA MIXER - #HL662	VERIFY CLOCKWISE ROTATION AND DISCONNECT @ 42" A.F.F.	O/K	G	N/A	N/A	-
K24	SS BUNNING TABLE	EAGLE GROUP MODEL #T3060SEB-BS	30"x60" W/ BACKSPLASH AND CASTERS	O/K	G	N/A	N/A	-
K26	SS PREP TABLE	EAGLE GROUP	WORK TABLE W/ ASTERS @ 2 SHELVES 72" L X 24" DP. X 42" H.	O/K	G	N/A	N/A	-
K28	SS DOUGH TABLE	EAGLE GROUP MODEL #T3084SEB-BS	W/ UNDERSHELF AND CASTERS (VERIFY LENGTH ON PLAN)	O/K	G	G	N/A	-
K29	DOUGH ROLLER (SHEETER)	SOMERSET IND. - #CDR-2000	OUTLET @ 50" A.F.F.	O/K	G	G/P	G/P	-
K31A	SS VEG. PREP SINK/TABLE	CUSTOM FABRICATED	S.S. PREP SINK 72", W/ SPRAY HEAD/FAUCET ASSEMBLY & STANDOFF (FISHER MODEL 34398)	O/K	G	G/P	G/P	-
K34A	DOUBLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE - #TM-52F	W/ CASTERS AND 6 SHELVES (EF-48)	O/K	G	G	G	-
K34B	SINGLE DOOR REACH-IN FREEZER	TRUE FOOD SERVICE - #TM-52F	W/ CASTERS AND 6 SHELVES (EF-24)					
K35A	WALK-IN COOLER	KOLPAK 8'-8 1/2" x 17'-4" x 9'-6 1/4"	CONTRACTOR INSTALLS METAL CAP & ELECT. CONNECT (INCLUDE DR. STOPS @ CLSR. HT.)	O/K	K	K	K/E	-
K39	COOLER SHELVING	METRO/METROSEAL 3	W/ CASTERS; (5) SHELVES (DUNNAGE ON BOTTOM)	O/K	G	N/A	N/A	-
K44	BUN RACKS, 20 SHELVES	NEW AGE MODEL #6331	INCLUDES CASTERS	O/K	G/K	K/E/P	N/K	-
K45B	ICE MAKER	MANITOWOC #SY-1894N	ICE BIN: FOLLETT CORP. #SG-SERIES - FILTER: MANITOWAC ARCTIC PURE AR-40000	O/K	G/K	K/E/P	N/K	-
K46	DISH TABLE W/ 3 COMP. SINK	CUSTOM FABRICATED	INCLUDES SCRAP SINK, FAUCETS, SPRAYER AND STANDOFF (FISHER MODEL 2110-WB, 13269)	O/K	G/P	K/E/P	K	-
K48	DISHWASHER SANITIZER	JACKSON/CONSERVER XL LOW-TEMP	CONTRACTOR TO CONNECT ELECTRICAL AND DRAIN	O/K	G/P	K/E/P	N/A	-
K50	SS CLEAN DISH TABLE	CUSTOM FABRICATED - 40" LONG		O/K	G/P	P/E	N/A	X
K54	DRY STORAGE SHELVING	METRO/SUPER ERECTA	REFER INSTALLATION INSTRUCTIONS; 24"DP. x 48"W.	O/K	G	N/A	N/A	-
K54A	DRY STORAGE SHELVING	METRO/SUPER ERECTA	REFER INSTALLATION INSTRUCTIONS; 24"DP. x 36"W.	O/K	G	N/A	N/A	-
K57	30" STAINLESS STEEL SHELF	NEW AGE - #1126A	MOUNT 5'-2" A.F.F. - PROVIDE BLOCKING IN WALL	O/K	G	N/A	N/A	X
K58	60" STAINLESS STEEL SHELF	NEW AGE - #1127A	MOUNT 5'-2" A.F.F. - PROVIDE BLOCKING IN WALL	O/K	G	N/A	N/A	X
K62	MOP SINK	FIAT - #TSB-200	REFER TO PLUMBING SCHEDULE	O/K	G	N/A	N/A	X
K63	HAND SINK W/ FAUCET	ADVANCE TABCO #7PS-50	W/ WRIST BLADES, SOAP, AND TOWEL DISPENSERS - REFER TO PLUMBING SCHEDULE	O/K	G/P	P	G	X
K64	COTTON CANDY MACHINE	GOLD METAL PRODUCTS #3008-ED	INCLUDES SS BASE GOLD MEDAL/3036 AND UNIFLOSS TOP HALF 3035 W/ CASTERS	O/K	G	N/A	G	-
K67	CHEMICAL STORAGE CABINET	KELMAX EQUIPMENT #CSC 1836	MOUNT ON WALL NEXT TO MOP SINK 5'-6" A.F.F. HOLD ECOLAB TIGHT BELOW CABINET, SEE ELEVATIONS	O/K	G	N/A	N/A	X
K70	STORAGE RACK	METRO/METROSEAL 3	18"x48" W/ CASTERS & 6 SHELVES	O/K	G	N/A	N/A	-
K71	AIR CURTAIN	MARS AIR DOORS - #42CH	ABOVE DELIVERY KITCHEN DOOR	O/K	G/E	G/E	G	X
K80	UTILITY CART	METRO MODEL #BC2030-34BY	UTILITY CART W/ CASTERS	O/K	G	N/A	N/A	-
K82	COFFEE SHELF	CUSTOM FABRICATED	21"D x 18"W x 24"H - MOUNT AT 38" A.F.F.; POWER AND WATER AT 34" A.F.F.	O/K	G	N/A	N/A	-
K86	ORDER HOLDER	SANJAMAR #CK6548A		O/K	G	N/A	N/A	-
K99	BUMPER RAILS	BOSTON BUMPER SYSTEM SERIES #2000	PROVIDE END CAPS & CORNER ACCESSORIES AS REQUIRED	O/K	G	N/A	N/A	X
K102	EMPLOYEE STOOLS	GARY PLATTE MODEL #9051	3 EA	O/K	G	G	N/A	-
K107	DISHTABLE SHELVING	EAGLE GROUP MODEL #605380	WALL MOUNTED ABOVE DRAINBOARD	O/K	G	N/A	N/A	X

FIXTURE AND MISCELLANEOUS EQUIPMENT SCHEDULE

O - OWNER K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
P - PLUMBING G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
X01	SODA/ICE DISPENSER	"COKE" VENDOR	G.C. TO SUPPLY POWER	V	V	V	V	-
X02	CARBONATOR W/ SS SHELF	"COKE" VENDOR	G.C. TO SUPPLY POWER, WATER OUTLET + 80"	V	V	V	V	X
X03	BAG & BOX RACK	"COKE" VENDOR	SET UNDER CARBONATOR	V	V/G	V	V	-
X04	TEA DISPENSER	"COKE" VENDOR	BLACK BOX FILTER MOUNTED NEXT TO CARBINATOR	V	V	V	V	-
X05	BULK CO2 TANK	LOCAL SUPPLIER/VENDOR	PROVIDE CHAIN FOR BACKUP TANK	V	V/G	V	V	X
X06	FILE CABINET	-	FOUR DRAWER FILE CABINET IN MANAGERS OFFICE & TWO DRAWER FILE CABINET IN TECH OFFICE	O	G	N/A	N/A	-
X07	CASH REGISTER SYSTEM	IBM	PROVIDE DEDICATED POWER & PHONE OUTLETS (INCLUDING KITCHEN PANTRY)	O	G	N/A	N/A	-
X08	TOKEN DISPENSERS	SPT	PROVIDE POWER	O	O	O	O	-
X09	AIR COMPRESSOR W/ DRYER	INGERSOL RAND MODEL #2475N5	SEE PLUMBING DWGS.	O	V	V	V	-
X10	CONDIMENT STANDS	PROGRESSIVE/CUSTOM	-	G	O	O	N/A	-
X11	MOP & BROOM HANGERS	EDON J295	WALL MOUNTED, SEE INTERIOR ELEVATIONS	O	G	N/A	N/A	X
X12	ECOLAB SYSTEM	ECOLAB	MOUNTS @ DISHWASHER & MOP SINK (G.C. TO COORDINATE)	O	V	V	V	X
X13	CAN OPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	O	G	N/A	N/A	-
X14	KNIFE SHARPENER	EDON	COORDINATE W/ TRAINING MGR. TO LOCATE	O	G	N/A	N/A	-
X15	MARKETING LIGHT BOX	STB	WALL MOUNTED, SEE INTERIOR ELEVATIONS - 2 EA FOR LARGE MARKET LOCATION / PW	O	G/V	E	N/A	-
X16	MENU BOARD	CUSTOM	WALL MOUNTED, SEE INTERIOR ELEVATIONS	O	G/E	E	N/A	X
X17	COMPUTER MONITOR	-	WALL MOUNTED ABOVE COUNTER - PROVIDE BLOCKING IN WALL	O	G/E	E	N/A	X
X18	EMPLOYEE LOCKERS	-	PROVIDE BLOCKING AS REQUIRED.	O	G	N/A	N/A	X
X19	TECH ROOM TOOL BOX	CRAFTSMAN STANDARD BOX		O	G	N/A	N/A	-
X20	MANAGER'S CONTROL PANEL	-	MOUNT AT 50" A.F.F.	O	G/E	E	N/A	-
X21	MANAGER'S SECURITY MONITOR	-		O	G/E	E	N/A	-
X22	SAFE	McGUNN #QD1021	REQUIRES ELECTRICAL OUTLET 18" A.F.F.	O	G	N/A	N/A	-

MILLWORK

K - KITCHEN EQUIPMENT SUPPLIER E - ELECTRICAL V - VENDOR
G - GENERAL CONTRACTOR M - MILLWORK SUPPLIER

#	DESCRIPTION	MANUF/MODEL	COMMENTS	FURNISH	INSTALL	HOOK UP	START	BLK'G
M01	FRONT COUNTER ASSEMBLY	MIDWEST/CUSTOM	INCLUDES: ORDER, SALAD, AND GIFT COUNTERS SEE DETAILS	O/M	G/E	G/E/P	N/A	-
M02	CUP CADDY	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X
M03	PRIZE CADDY & SHELVING	MIDWEST/CUSTOM	INCLUDES: SLATWALL HANGERS	O/M	G	N/A	N/A	X
M04	SNEEZE GUARD	MIDWEST/CUSTOM	OVERHANGS RECESSED CROCKS, SEE DETAIL/POWER REQUIRED	O/M	G	N/A	N/A	-
M05	BEVERAGE COUNTER	MIDWEST/CUSTOM	SS TOP, SEE DETAIL	O/M	G	P/G	N/A	-
M06	MANG'R DESK W/CABINETS	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	G/E	N/A	X
M07	EMP. BRK. CNTR. & UPPER CAB.	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS/POWER REQUIRED FOR DVD	O/M	G	N/A	N/A	X
M08	EMP. COAT RACK/STO. UNIT	MIDWEST/CUSTOM	INSTALL W/ FINAL DECOR BY OWNER - SEE A9.1 FOR LOCATIONS	O/M	G	N/A	N/A	X
M09	TECH ROOM WORK BENCH W/ WALL CABINET	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X
M10	TECH ROOM SHELVING, 12" DEEP	MIDWEST/CUSTOM	SEE INTERIOR ELEVATIONS	O/M	G	N/A	N/A	X

REGISTRATION SEAL

No. 2995

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

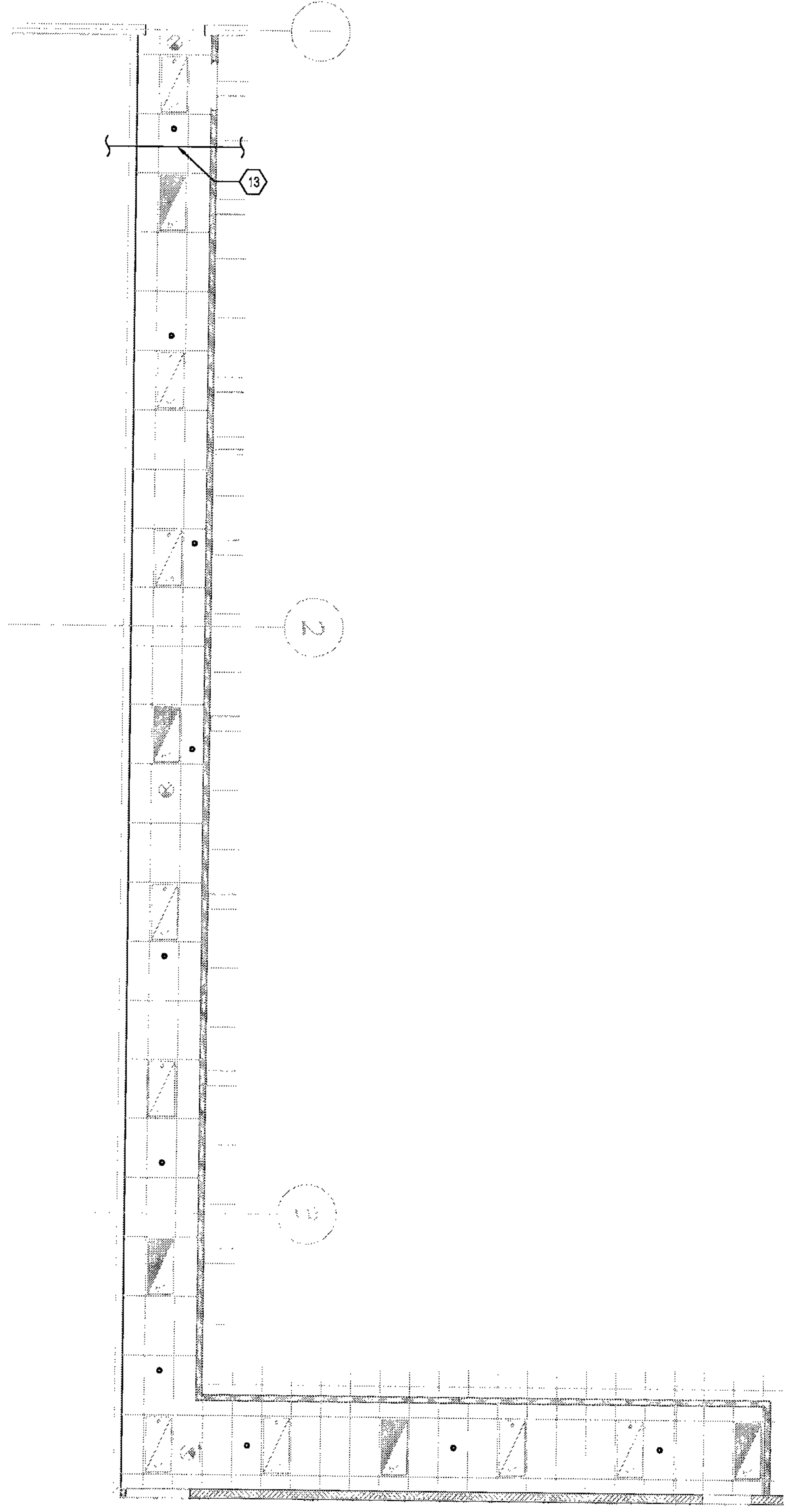
CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

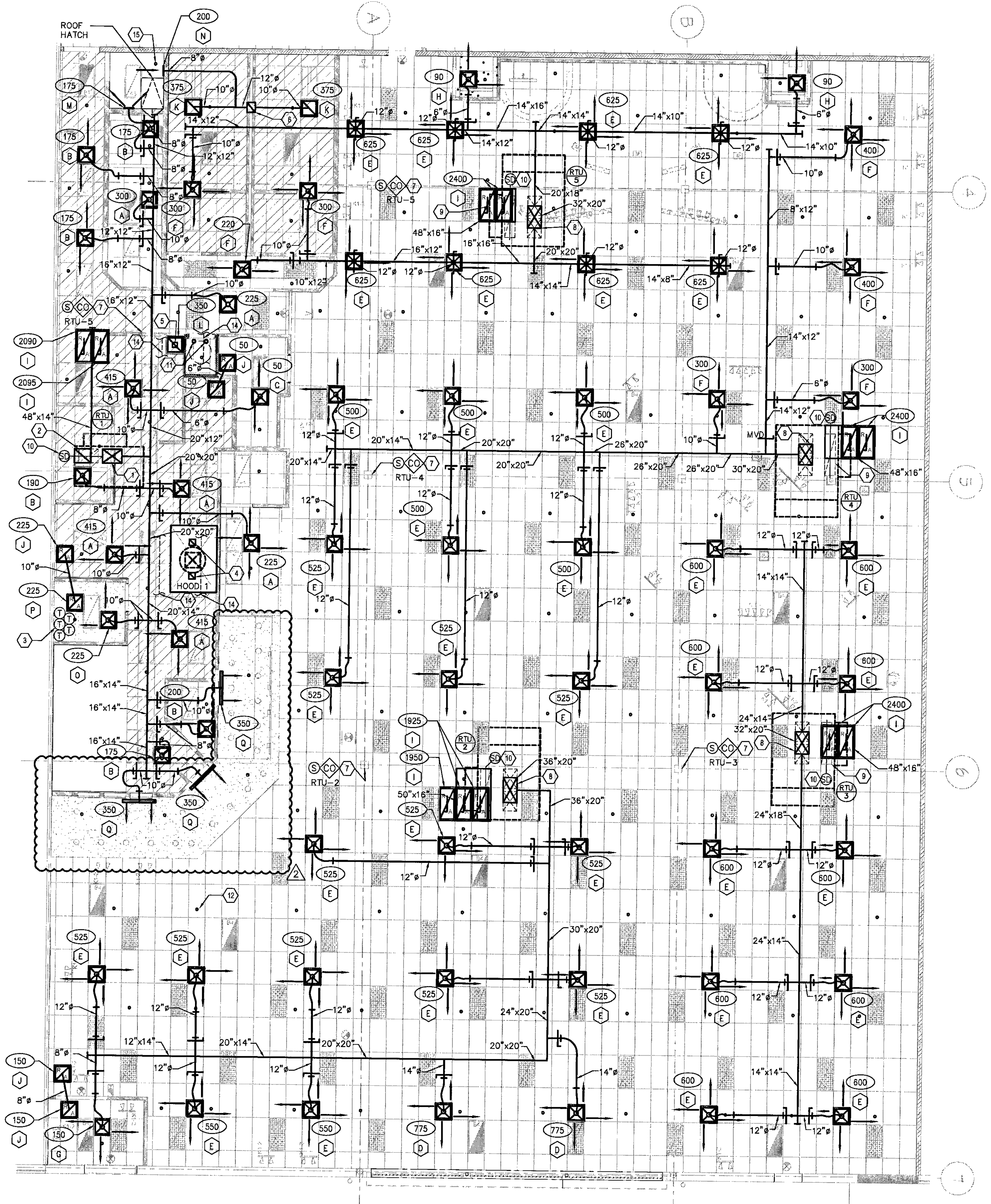
REV	DATE	DESCRIPTION	NAME
2	6/25/10	OWNER CHANGES	LRE

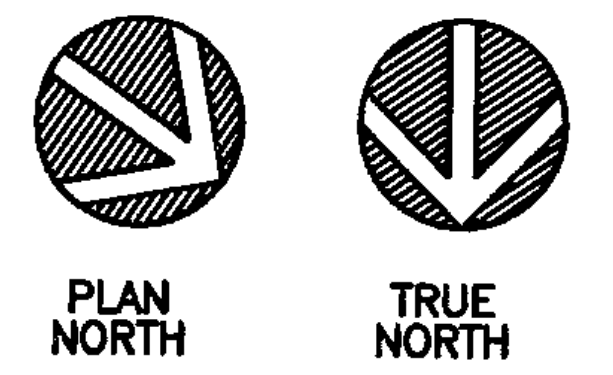
PROJECT NO: 090899
DRAWN BY: LRE
CHECKED BY: RK
ISSUE DATE: 04/07/10

KITCHEN EQUIPMENT PLAN

K1.0







01 MECHANICAL FLOOR PLAN

Scale: 1/8"=1'-0"

GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, PIPING OR EQUIPMENT.
2. ALL ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO REFRIGERANT LINES, ETC.
5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
7. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT.
8. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILINGS.
9. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHTING LAYOUTS AS REQUIRED.
11. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
12. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.
13. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOORS THAT ARE TO BE UNDERCUT.

⬡ CODED NOTES

⟨1⟩ 28x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.

⟨2⟩ 28x20 RETURN AIR DUCT UP THRU ROOF TO RTU. TRANSITION IN VERTICAL TO UNIT OPENING SIZE. REFER TO DETAIL 09/M1.3.

⟨3⟩ OWNER TO PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL THERMOSTAT WITH REMOTE SENSOR TO MATCH UNIT TO BE REMOTELY LOCATED IN MANAGER'S OFFICE AS SHOWN ON THIS SHEET. M.C. TO INSTALL THERMOSTAT AND SENSOR. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY. LABEL THERMOSTAT IN OFFICE FOR EACH APPROPRIATE ZONE.

⟨4⟩ PROVIDE PAIR OF PANTS EXHAUST CONNECTION FROM A TYPE II HOOD TO A COMMON 18"X18" RISER. REFER TO HOOD DETAILS ON SHEET M1.4 FOR MORE INFORMATION. EXTEND UP THROUGH ROOF TO EF-1. OFFSET AS REQUIRED TO MAINTAIN A 10'-0" MINIMUM CLEARANCE FROM RTU AIR INTAKE.

⟨5⟩ 10x10 GALVANIZED DISHWASHER EXHAUST DUCT UP THRU ROOF TO EF-2.

⟨6⟩ 14x12 TOILET EXHAUST DUCT UP THRU ROOF TO EF-3.

⟨7⟩ LOCATION OF TEMPERATURE SENSOR AND CO2 SENSORS CONNECTED TO THERMOSTAT IN MANAGER'S OFFICE. MOUNT 54" A.F.F.

⟨8⟩ 50x20 SUPPLY AIR DUCT UP THRU ROOF TO RTU. TRANSITION IN VERTICAL TO UNIT OPENING SIZE.

⟨9⟩ 50x20 RETURN AIR DUCT UP THRU ROOF TO RTU. TRANSITION IN VERTICAL TO UNIT OPENING SIZE. REFER TO DETAIL 09/M1.3.

⟨10⟩ LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN RETURN AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SIGNAL FIRE ALARM PANEL AND SHUT DOWN RTU.

⟨11⟩ ROUTE 3" PVC FLUE VENT AND 3" PVC COMBUSTION AIR INTAKE UP THRU ROOF AND TERMINATE PER MANUFACTURER'S INSTRUCTION. REFER TO SHEET MEP1.1 FOR INFORMATION. ADJUST AS PER ACTUAL BEAM/JOIST LOCATIONS. VERIFY IN FIELD. SHALL BE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.

⟨12⟩ EXISTING SPRINKLER HEAD TO BE RELOCATED AS SHOWN DUE TO NEW CEILING GRID, LIGHTS, AND DIFFUSERS. EXTEND EXISTING SPRINKLER PIPING AS REQUIRED. (TYP.) FIELD VERIFY LOCATION.

⟨13⟩ FIRE SPRINKLER PIPING THRU TENANT'S SPACE. FIELD VERIFY LOCATION.

⟨14⟩ EXISTING 22K JOISTS AT 5'0" O.C. SHOWN FOR REFERENCE. FIELD VERIFY LOCATION.

⟨15⟩ PROVIDE NEW/RELOCATE UPRIGHT SPRINKLER HEAD FOR OPEN TO DECK STRUCTURE. EXTEND EXISTING SPRINKLER PIPING AS REQUIRED. FIELD VERIFY LOCATION.

BIDDING NOTES

1. KITCHEN HOODS AND HOOD EXHAUST FANS ARE SUPPLIED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR. BID IS TO INSTALL THE ENTIRE HOOD SYSTEM.
2. REFER TO CAPTIVE AIRE DETAILS ON SHEET M1.4 FOR BIDDING INSTALLATION COORDINATION ONLY.
3. ALL HOOD DUCTWORK IS TO BE FURNISHED AND INSTALLED BY HVAC CONTRACTOR.

HOOD EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER NFPA 96, 2001 EDITION AND CITY OF FAYETTEVILLE BUILDING AND FIRE CODES.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
2	06/24/10	OWNER COMMENTS	SL

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE: 04/07/10

MECHANICAL FLOOR PLAN

M1.1

SUITE #2
—
3001 COLLEGE AVENUE
FAYETTEVILLE, AR 72709
14,853 SQUARE FEET

LOAD COMPONENT SUMMARY

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1400 COOLING OA DB / WB 94.4 °F / 74.8 °F			HEATING DATA AT DES HTG HEATING OA DB / WB 6.0 °F / 4.0 °F		
ZONE LOADS	**Details**	**Sensible (BTU/hr)**	**Latent (BTU/hr)**	**Details**	**Sensible (BTU/hr)**	**Latent (BTU/hr)**
Window & Skylight Solar Loads	235 ft²	7444	-	235 ft²	-	-
Wall Transmission	1656 ft²	8840	-	1656 ft²	28809	-
Roof Transmission	14853 ft²	75981	-	14853 ft²	65708	-
Window Transmission	235 ft²	2077	-	235 ft²	8591	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	12586 ft²	0	-	12586 ft²	4647	-
Partitions	891 ft²	2963	-	891 ft²	5049	-
Ceiling	0 ft²	0	-	0 ft²	0	-
Overhead Lighting	20228 W	54468	-	0	0	-
Task Lighting	2400 W	7230	-	0	0	-
Electric Equipment	26925 W	83229	-	0	0	-
People	523	96478	132175	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	44929	7450	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	**-**	**383639**	**139625**	**-**	**112803**	**0**
Zone Conditioning	-	371893	139625	-	109045	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Return Fan Load	23885 CFM	0	-	23885 CFM	0	-
Ventilation Load	11068 CFM	207816	149269	11230 CFM	738709	0
Supply Fan Load	23885 CFM	30986	-	23885 CFM	-30986	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	0%	0	-	0%	0	-
>> Total System Loads	**-**	**610695**	**288894**	**-**	**816767**	**0**
Central Cooling Coil	-	610695	288900	-	0	0
Central Heating Coil	-	0	-	-	816767	-
>> Total Conditioning	**-**	**610695**	**288900**	**-**	**816767**	**0**
Key:	**Positive values are clg loads Negative values are htg loads**			**Positive values are htg loads Negative values are clg loads**		

WEATHER	SYSTEM	THERMOSTAT
LOCATION – FAYETTEVILLE, AR	ROOFTOP UNITS	COOL (OCC.) – 75.0°F
ELEVATION – 1,250 FT	SUPPLY AIR – 59°F	COOL (UNOCC.) – 85°F
SUMMER DB – 95°F	30,000 CFM	HEATING – 70.0°F
SUMMER WB – 75°F	START – 8:00	
WINTER DB – 6°F	DURATION – 14 HRS	

AIR BALANCE SCHEDULE

ZONE: KITCHEN

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 1	5000	4185	815	––––	+815
EF 1	––––	––––	––––	1100	–1100
EF 2	––––	––––	––––	350	–350
SUBTOTAL	5000	4185	815	1450	–635

ZONE: DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 2	7000	5800	1200	––––	+1200
SUBTOTAL	7000	5800	1200	950	+1200

ZONE: SKYWALK GAMES DINING/DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 3	6000	4800	1200	––––	+1200
SUBTOTAL	6000	4800	1200	––––	+1200

ZONE: STAGE DINING/SKYWALK GAMES DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 4	6000	4800	1200	––––	+1200
SUBTOTAL	6000	4800	1200	––––	+1200

ZONE: STAGE DINING

MARK	SUPPLY AIR–CFM	RETURN AIR–CFM	OUTSIDE AIR–CFM	EXHAUST AIR–CFM	PRESSURE
RTU 5	6000	4800	1200	––––	+1200
EF 3	––––	––––	––––	950	–950
SUBTOTAL	6000	4800	1200	950	+250

BUILDING TOTAL	30000	24385	5615	2400	+3215

NOTES:

1. A COMPLETE TEST AND AIR BALANCE SHALL BE PERFORMED ON ALL AIR DISTRIBUTION EQUIPMENT. THE TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT, FULLY CERTIFIED TAB AGENCY THAT SPECIALIZES IN THE TESTING AND BALANCING OF AIR AND HYDRONIC SYSTEMS. THE TAB AGENCY SHALL SUBMIT TO THE OWNER (6) COPIES OF A WRITTEN REPORT WITHIN 30 DAYS AFTER THE INSPECTION IS COMPLETE. LIST ALL COMPLAINTS AND MALFUNCTIONS ENCOUNTERED AND INDICATE STEPS TAKEN OR NEEDED TO BE TAKEN TO CORRECT.

OUTSIDE AIR CALCULATIONS

OUTSIDE AIR REQUIRED

ROOM USE	SQ. FT.	No. PEOPLE	CFM/PERSON	CFM REQ'D
KITCHEN/SUPPORT	2397*	10*	15	150
STAGE DINING	2267*	3*	20	4660
GAMES – SKYWALK DINING	5214	180*	25	4500
DINING	4483*	96*	20	1920
TOTAL	14,361*	519*	––	11230

*PER ASHRAE VARIABLE OCCUPANCY 50% FACTOR WITH CO2 SENSOR CONTROLS= 5615 CFM △2

OUTSIDE AIR PROVIDED

UNIT No.	SUPPLY AIR	RETURN AIR	OUTSIDE AIR @50%
RTU–1	5000	4185	815
RTU–2	7000	5800	1200
RTU–3	6000	4800	1200
RTU–4	6000	4800	1200
RTU–5	6000	4800	1200
TOTAL	30,000	24,385	5,615

ROOFTOP UNIT SCHEDULE

MARK	MFG'R	MODEL	NOM. TONS	SUPPLY CFM	SUPPLY FAN H.P.	EXT. S.P.	O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL								E.E.R.	OPER. WEIGHT LBS	ZONE SERVED	REMARKS
								COOLING TOTAL	COOLING SENSIBLE	HEATING INPUT	HEATING OUTPUT	COMP. NO.	COMP. RLA EA.	FAN NO.	FAN FLA EA.	VOLT	ø	MCA	FUSE SIZE				
RTU 1	LENNOX	LGH150	12.5	5000	5.0	0.6"	815	164,000	124,000	130,000	104,000	2	9.7	4	1.3	460	3	33.0	40	10.8	1401	KITCHEN	SEE NOTES
RTU 2	LENNOX	LGH210	17.5	7000	7.5	0.6"	1200	204,000	193,000	260,000	208,000	3	7.8 7.8 9.7	6	1.3	460	3	47.0	50	12.0	2615	GAMES DINING	SEE NOTES
RTU 3	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	DINING	SEE NOTES
RTU 4	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	DINING	SEE NOTES
RTU 5	LENNOX	LGH180	15.0	6000	5.0	0.6"	1200	180,000	193,000	260,000	208,000	3	7.8	4	1.3	460	3	39.0	45	12.0	2505	TOILET ROOMS STAGE DINING	SEE NOTES

NOTES:

1. HVAC UNITS PROVIDED BY OWNER.
2. UNITS SELECTED AT 80°F DB, 67°F WB, 95°F OUTDOOR AMBIENT.
3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
4. PROVIDE 14" ROOF CURB.
5. PROVIDE UNIT WITH CO2 INDOOR AIR QUALITY SENSOR AND CONTROLS. MINIMUM O.A. SETTING @ 50% REQUIRED VENTILATION.
6. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF DAMPER.
7. PROVIDE TWO SETS OF 2" 30% PLEATED FILTERS. CHANGE FILTERS PRIOR TO AIR BALANCE, AND AFTER FINAL STORE CLEANING. DATE FILTERS.
8. OWNER TO PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL REMOTE THERMOSTAT. M.C. TO INSTALL IN MANAGER'S OFFICE. OWNER TO PROVIDE SENSOR. M.C. TO INSTALL AT LOCATION SHOWN IN DINING ROOM. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY.
9. LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN RETURN AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SIGNAL FIRE ALARM PANEL AND SHUT DOWN RTU.
10. ROOFTOP UNIT SHALL HAVE FACTORY INSTALLED NEMA 3R DISCONNECT SWITCH, WP & GFCI

PLEASE NOTE:

HVAC units provided by Owner. Chuck E. Cheese has an exclusive National Account agreement with Lennox Industries. Please contact your local Lennox sales office for information, or contact Lennox National Account Manager Chris Murray at 1–800–367–6285.

FAN SCHEDULE

MARK	MFG'R	MODEL	CFM	EXT. S.P.	TYPE	SERVING	ELECTRICAL			OPER. WEIGHT LBS	REMARKS
							H.P.	VOLT	ø		
EF 1	SEE NOTES	DU85HFA	1100	0.50"	CENT.	PIZZA HOOD	1	120	1	60	PROVIDE WITH HINGE KIT, ROOF CURB W/ VENTED EXTENSION, DISCONNECT,
EF 2	SEE NOTES	DU30HFA	350	0.75"	CENT.	DISHWASH MACHINE	1/4	120	1	50	PROVIDE WITH ROOF CURB, DISCONNECT AND EPOXY COATING. INTERLOCK WITH DISHWASH MACHINE, REFER TO ELECTRICAL DRAWINGS.
EF 3	LOREN COOK	100 ACEB	950	0.375"	CENT.	TOILETS	1/4	120	1	35	PROVIDE WITH ROOF CURB, DISCONNECT, BIRD SCREEN AND BACKDRAFT DAMPER. EXHAUST FAN AND ACCESSORIES BY MECHANICAL CONTRACTOR.
FF 1	MARS	42CH	2,550	––	––	DELIVERY DOOR	1/2	120	1	55	PROVIDED BY KITCHEN EQUIPMENT SUPPLIER WITH AUTOMATIC DOOR PLUNGER SWITCH. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

NOTES:

1. FAN IS PART OF HOOD PACKAGE PROVIDED BY OWNER. CONTACT CAPTIVE–AIRE FOR INFORMATION. FANS AND HOODS SUPPLIED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW		LINED DUCTWORK
Ⓣ	THERMOSTAT		RECTANGULAR ELBOW WITH TURNING VANES
—⋈—	GATE VALVE	|||||||||||	ROUND FLEXIBLE DUCT CONNECTION
	CHECK VALVE	☒	90 DEGREE ELBOW DOWN
	STRAINER	☒	90 DEGREE ELBOW UP
—||—	UNION		FLEXIBLE DUCT CONNECTION
	PRESSURE GAUGE	☒	SUPPLY AIR DEVICE
	THERMOMETER		DUCT SIZE TRANSITION
E.A.	EXHAUST AIR	CHWS	CHILLED WATER SUPPLY
Ⓕ—F.D.	FIRE DAMPER	CHWR	CHILLED WATER RETURN
H.O.A.	HAND – OFF – AUTOMATIC	CWS	CONDENSER WATER SUPPLY
N.C.	NORMALLY CLOSED	CWR	CONDENSER WATER RETURN
N.O.	NORMALLY OPEN	HWS	HOT WATER SUPPLY
M.A.	MIXED AIR	HWR	HOT WATER RETURN
O.A.	OUTSIDE AIR	RS	REFRIGERANT SUCTION
REL. A.	RELIEF AIR	RL	REFRIGERANT LIQUID
R.A.	RETURN AIR	FOT	FLAT ON TOP
(SD)	DUCT MOUNTED SMOKE DETECTOR	–D–	CONDENSATE DRAIN (PITCHED)
	MANUAL BALANCING DAMPER		BACKDRAFT DAMPER
M—	MOTORIZED DAMPER	●—	POINT OF CONNECTION
◪	CEILING RETURN AIR DEVICE		NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.
⧓	SUPPLY DUCT RISER		

AIR DISTRIBUTION

MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPT'N	NOTES
CFM A	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM B	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM C	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	6"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2
CFM D	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	14"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 3
CFM E	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	12"ø	LAY–IN	4–WAY ADJ. LOUVER CLG. DIFFUSER	1, 3
CFM F	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 2
CFM G	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	8"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 3
CFM H	TITUS OR EQUAL	TMS–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	6"ø	LAY–IN	4–WAY FIXED LOUVER CLG. DIFFUSER	1, 3
CFM I	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	48x24	46x22	LAY–IN	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM J	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM K	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	PERFORATED EXHAUST GRILLE	1, 3
CFM L	TITUS OR EQUAL	8F	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	LAY–IN	PERFORATED EXHAUST GRILLE	5
CFM M	TITUS OR EQUAL	272FS	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SIDEWALL	SIDEWALL SUPPLY GRILLE	1
CFM N	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	14x10	12x8	SIDEWALL	0° DEFLECTION SLOTTED EXHAUST GRILLE	1
CFM O	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	SURFACE	△2 2–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2, 6 △2
CFM P	TITUS OR EQUAL	56FL	SEE PLANS	500 MAX.	30 MAX.	24x24	22x22	SURFACE	0° DEFLECTION SLOTTED RETURN GRILLE	1, 3
CFM Q	TITUS OR EQUAL	TDC–AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	SURFACE	2–WAY ADJ. LOUVER CLG. DIFFUSER	1, 2, 6 △2

NOTES:

1. PROVIDE WITH OFF–WHITE FINISH.
2. PROVIDE WITH AG–75 DAMPER.
3. PROVIDE WITH AG–35–AA DAMPER.
4. PROVIDE WITH MP–39 DIFFUSER PLENUM. PROVIDE OVAL TO ROUND TRANSITION AS REQUIRED.
5. PROVIDE WITH AG–15–AA DAMPER.
6. PROVIDE TRM FRAME, OFF–WHITE FINISH △2

ROOFTOP UNIT LABELING

ALL ROOFTOP UNITS ARE TO BE LABELED WITH ENGRAVED LAMINATED NAMEPLATES, SCREWED TO THE EXTERIOR OF THE UNITS SHOWING THE FOLLOWING INFORMATION :

1. UNIT NUMBER ______________
2. MODEL NUMBER ______________
3. SERIAL NUMBER ______________
4. GAS OR ELECTRIC HEAT ______________
5. TONNAGE ______________
6. VOLTAGE ______________

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2995
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

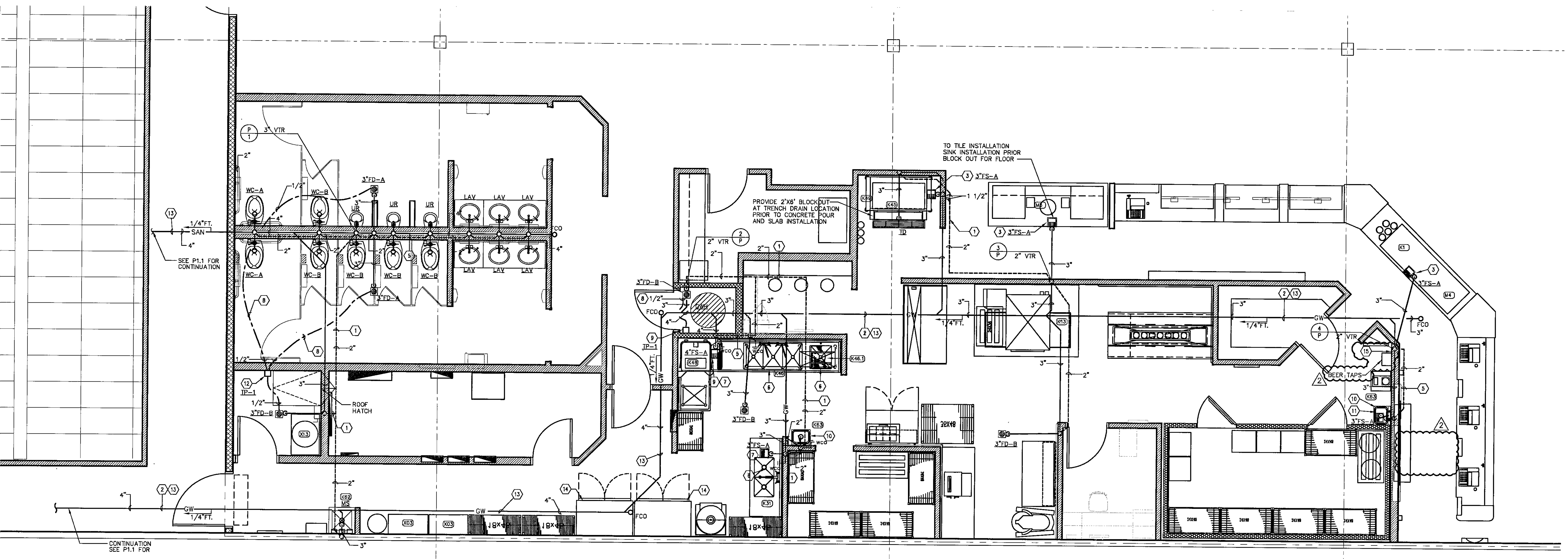
CHUCK E. CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
△2	06/24/10	OWNER COMMENTS	SL

PROJECT NO: 090899
DRAWN BY: JCC
CHECKED BY: GAB
ISSUE DATE:
04/07/10

MECH. SCHED + DETAIL

M1.2


TO TILE INSTALLATION SINK INSTALLATION PRIOR BLOCK OUT FOR FLOOR
PROVIDE 2'X6' BLOCKOUT AT TRENCH DRAIN LOCATION PRIOR TO CONCRETE POUR AND SLAB INSTALLATION
SEE P1.1 FOR CONTINUATION
CONTINUATION SEE P1.1 FOR
ROOF HATCH
3" VTR
2" VTR
WC-A
WC-B
UR
LAV
3"FD-A
3"FD-B
3"FS-A
4"FS-A
1/4"FT.
SAN
GW
FCO
CO
TP-1
TD
MS
BEER TAPS
K49
K46
K46.1
K13
K1
K31
K53
K62
K03
M4

01 WASTE PLAN

SCALE:1/4"=1'-0"

CODED NOTES

- ⟨1⟩ VENT PIPING ABOVE CEILING. (TYPICAL)
- ⟨2⟩ WASTE PIPING BELOW FLOOR. (TYPICAL)
- ⟨3⟩ FLOOR SINK FOR INDIRECT WASTE FROM EQUIPMENT (TYPICAL). COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.
- ⟨4⟩ FLOOR SINK AT DISHWASH EQUIPMENT CONNECT TO GREASE WASTE PIPING SYSTEM. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.
- ⟨5⟩ VENT PIPING IN WALL @ 42" A.F.F., SEE PLUMBING RISER.
- ⟨6⟩ SINK PROVIDED BY KITCHEN CONTRACTOR. INDIRECTLY TERMINATE DRAIN WITH AIR-GAP AT FLOOR SINK BELOW, SEE DETAIL 04/P3.4.
- ⟨7⟩ FLOOR SINK FOR INDIRECT WASTE FROM SINKS. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.
- ⟨8⟩ 1/2" TRAP PRIMER LINE BELOW FLOOR SEE DETAIL 02/P3.3.
- ⟨9⟩ TRAP PRIMER VALVE "(TP-1)" ON WALL IN WATER HEATER CLOSET, SEE TRAP PRIMER DETAIL 02/P3.3.
- ⟨10⟩ HAND SINK "(HS)" PROVIDED BY KITCHEN CONTRACTOR.
- ⟨11⟩ FLOOR SINK FOR INDIRECT WASTE. TERMINATE DRAIN PIPING FROM WALK-IN COOLER, AND BEER TAPS AT FLOOR SINK WITH CODE APPROVED AIR-GAP. SEE ARCHITECTURAL DETAIL FOR INSTALLATION AND ROUTING OF DRAIN LINES FROM BEER TAPS. COORDINATE EXACT LOCATION OF FLOOR SINK WITH ARCHITECTURAL AND KITCHEN DRAWINGS.
- ⟨12⟩ TRAP PRIMER VALVE "(TP-1)" ON WALL IN AIR COMPRESSOR ROOM, SEE TRAP PRIMER DETAIL 02/P3.3.
- ⟨13⟩ CONTRACTOR HAS OPTION OF RUNNING WASTE PIPING AT 1/8" PER FOOT SLOPE IF NECESSARY, DUE TO ELEVATION OF SANITARY MAIN.
- ⟨14⟩ DOUBLE DOOR REACH-IN FREEZER W/CASTERS FOR ACCESSIBILITY TO FLOOR CLEANOUT, SHOWN FOR REFERENCE. (TYPICAL OF 2) △2
- ⟨15⟩ ENSURE THERE IS ENOUGH ROOM FOR ROUTING OF VENT AND BEER TAP INSULATED LINESET IN WALL.

NOTE:

1. ALL EXPOSED INDIRECT WASTE PIPING TO BE PVC. REFERENCE GENERAL NOTE #10 ON SHEET P3.1.
2. REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P3.1 FOR SIZES AND TYPE OF CONNECTION.
3. REFERENCE ARCHITECTURAL SHEET A1.1 FOR PLUMBING FIXTURE DIMENSIONS.

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET K1.0 FOR EQUIPMENT PLAN.

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2998
ARKANSAS

Fred J. Goglia

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcy.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

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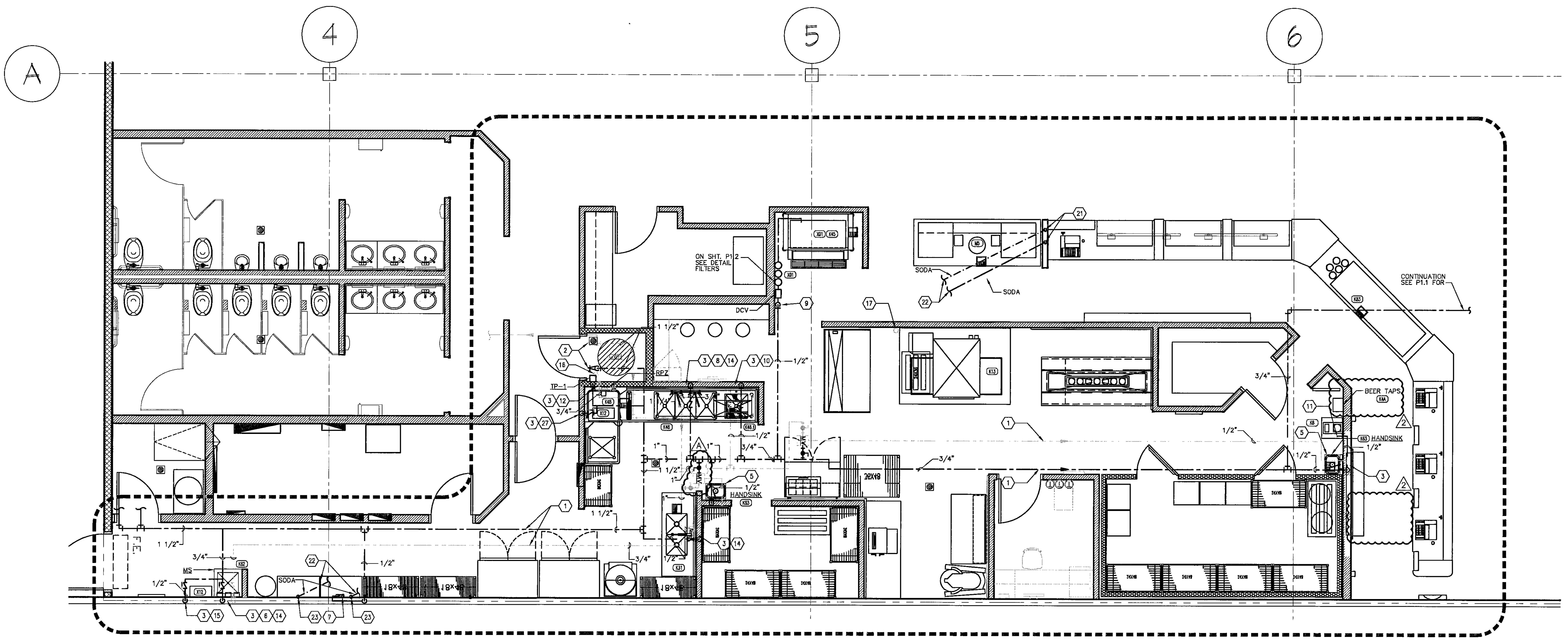
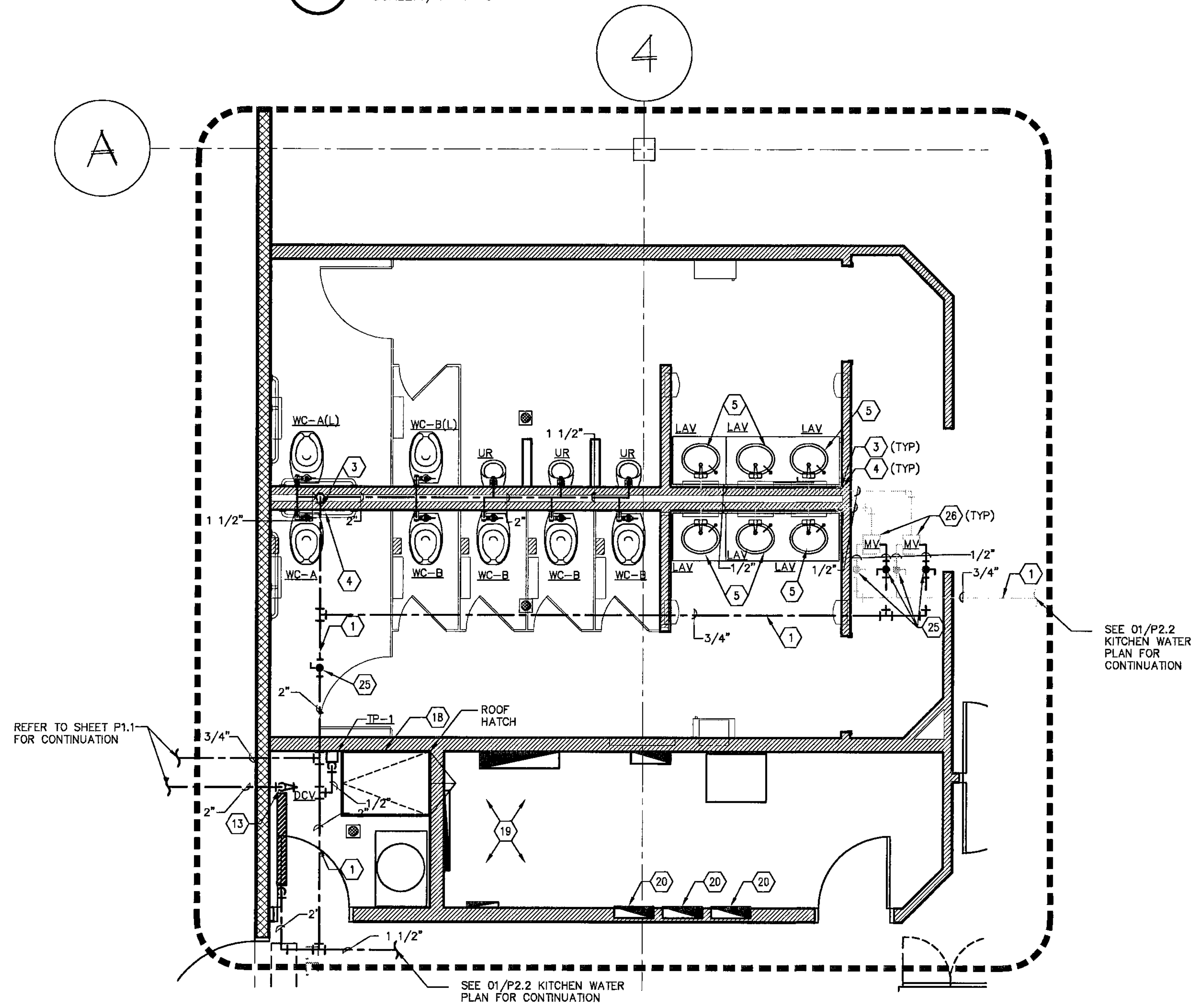
PLUMBING WASTE PLAN

P2.1



01 PLUMBING KITCHEN WATER PLAN

SCALE:1/4"=1'-0"


A
4
WC-A(L)
WC-B(L)
WC-A
WC-B
UR
LAV
MV
(TYP)
1 1/2"
3/4"
1/2"
2"
TP-1
ROOF HATCH
DCV
REFER TO SHEET P1.1 FOR CONTINUATION
SEE 01/P2.2 KITCHEN WATER PLAN FOR CONTINUATION
SEE 01/P2.2 KITCHEN WATER PLAN FOR CONTINUATION

02 PLUMBING TOILET WATER PLAN

SCALE:1/4"=1'-0"

CODED NOTES

- ⟨1⟩ INSULATED HOT AND COLD WATER PIPING ABOVE CEILING. (TYPICAL)
- ⟨2⟩ 1 1/2" HOT & COLD WATER PIPING AT WATER HEATER. SEE W.H. DETAIL 01/P3.4. TERMINATE T&P RELIEF DRAIN AT 3" FD BELOW.
- ⟨3⟩ INSULATED HOT, COLD, &/OR TEMPERED WATER DOWN IN WALL TO FIXTURE. INSULATE ALL WATER PIPING IN WALLS (TYPICAL).
- ⟨4⟩ WATER PIPING IN WALL TO TOILET ROOM FIXTURES. LOCATE HAMMER ARRESTER ABOVE CEILING WITH ACCESS FROM THE MEN'S ROOM.
- ⟨5⟩ INSTALL MIXING VALVE "MV-1" AT FIXTURE, CONNECT TO SUPPLY PIPING TO FIXTURE, SET WATER TEMP. @ 110°F. SEE DETAIL 18/P3.2. INSTALL MIXING VALVE ABOVE CEILING AT HAND SINKS AND BELOW FIXTURE AT LAVATORIES.
- ⟨6⟩ 3/4" H&C WATER SUPPLY PIPING DN. IN WALL TO MOP SINK. SEE DETAIL 19/P3.2.
- ⟨7⟩ PROVIDE DUAL CHECK VALVE "CHUDNOW" SERIES #914 (OR EQUAL) WITH ASSE 1032 LISTING. INSTALL AT EQUIPMENT CONNECTIONS. FOR SODA EQUIPMENT, VALVE MUST BE STAINLESS STEEL. INSTALL UPSTREAM OF CARBONATOR AS PER SECTION 608.16.1 OF THE 2006 INTERNATIONAL PLUMBING CODE. PROVIDE WATTS 009QT (RPZ) BEFORE DUAL CHECK VALVE (WHEN REQUIRED BY CODE, SEE DETAIL 02/P3.4.
- ⟨8⟩ 3/4" HOT AND COLD WATER PIPING DOWN IN WALL WITH 1/2" SUPPLIES (@ 12" AFF) TO 3-COMP SINK FAUCETS.
- ⟨9⟩ ICE MACHINE 1/2" WATER SUPPLY TO WATER FILTER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO WATER FILTER. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
- ⟨10⟩ 1/2" HOT AND COLD WATER TO PRE RINSE. INSTALL SUPPLIES @ 12" A.F.F.
- ⟨11⟩ 1/2" WATER SUPPLY 20"A.F.F. FOR COFFEE MAKER. INSTALL DOUBLE CHECK VALVE ASSEMBLY ON WATER LINE PRIOR TO CONNECTING TO EQUIPMENT. SEE BACKFLOW PREVENTER SCHEDULE ON SHEET P3.1.
- ⟨12⟩ 3/4" HOT (140°F) WATER TO LOW TEMP. DISHWASHER. PROVIDE RPZ VALVE AND INSTALL AT 61-3/4" A.F.F.
- ⟨13⟩ PROVIDE AND INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER "WATTS 007-QT" BACKFLOW PREVENTER. INSTALL DCV ON MAIN WATER SERVICE. MOUNT UNIT ON WALL 5'-0" A.F.F. MAX., COORDINATE WITH OTHER EQUIPMENT ON WALL. UNIT MUST BE TESTABLE AND INSTALLED AT HEIGHT ACCESSIBLE FOR TESTING.
- ⟨14⟩ INSTALL CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO PLUMBING FIXTURE. (VEGETABLE PREP SINK, 3-COMP SINK AND MOP SINK)
- ⟨15⟩ 1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT AT MOP SINK, (PROVIDE RPZ VALVE). SEE DETAIL 19/P3.2.
- ⟨16⟩ GAS PIPING DOWN THRU ROOF AND CEILING SPACE TO WATER HEATER. PROVIDE GAS COCK, UNION, AND DIRT LEG AT CONNECTION. SEE DETAIL 01/P3.4.
- ⟨17⟩ 2" LOW PRESSURE GAS CONNECTION POINT FOR PIZZA OVEN. SEE KITCHEN EQUIPMENT MANUAL FOR FINAL CONNECTION REQUIREMENTS. SEE PIZZA OVEN GAS DETAIL 08/P3.2.
- ⟨18⟩ ROOF ACCESS AREA. DO NOT RUN ANY PIPES ABOVE OR THROUGH THIS SPACE.
- ⟨19⟩ ELECTRICAL ROOM. DO NOT RUN ANY PIPES ABOVE OR THROUGH THIS SPACE.
- ⟨20⟩ ELECTRICAL PANELS. DO NOT RUN ANY PIPES ABOVE THE ELECTRICAL PANELS OR WITHIN 36" OF THE ELECTRICAL PANELS. COORDINATE IN FIELD WITH ACTUAL PANEL LOCATIONS.
- ⟨21⟩ TERMINATE 6" PVC CONDUIT DOWN 6" BELOW CEILING WITH ELBOW TO SERVE SODA SYSTEM.
- ⟨22⟩ 6" PVC CONDUIT ROUTED ABOVE CEILING USING LONG SWEEP BENDS. DO NOT USE ANY SHORT SWEEPS OR SHARP TURNS.
- ⟨23⟩ 6" PVC CONDUIT STUBBED DOWN 6" BELOW CEILING WITH ELBOW TO SERVE SODA SYSTEM. FIELD VERIFY AND COORDINATE ACTUAL LOCATION OF SODA "BAG-IN-BOX" PRIOR TO BID.
- ⟨24⟩ 3"ø WATER HEATER FLUE AND COMBUSTION AIR UP THRU ROOF – OFFSET AS REQUIRED. INSTALL PER MANUFACTURERS RECOMMENDATION.
- ⟨25⟩ INSTALL SHUTOFF VALVES ABOVE CEILING ON HOT AND COLD WATER SUPPLY LINES TO TOILET ROOMS ABOVE LAY-IN CEILING.
- ⟨26⟩ INSTALL MIXING VALVES ABOVE CEILING. PROVIDE ONE PER RESTROOM. MAXIMUM OF THREE LAVATORIES PER MIXING VALVE. REFER TO LAVATORY MIXING VALVE DETAIL #18 ON SHEET P-3.2
- ⟨27⟩ 1/2" COLD WATER PIPING DOWN IN WALL TO ECOLAB UNIT AT DISHWASHER, (PROVIDE RPZ VALVE).

NOTE:
REFERENCE FIXTURE UNIT COUNT/CONNECTION SCHEDULE ON SHEET P3.1 FOR WATER SUPPLY SIZES AND INSTALLATION HEIGHTS.

(K49) = EQUIPMENT IDENTIFICATION TAG, SEE SHEET K1.0 FOR EQUIPMENT PLAN.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCKECHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
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PROJECT NO: 090899
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PLUMBING WATER PLAN

P2.2

LIGHT FIXTURE SCHEDULE / LAMP SCHEDULE

I.D.	SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	REF NOTES	VOLTS	REC	SUR	PEN	WAL	LAMP/ FIXT	WATTS/ LAMP	FIXTURE WATTS	LAMP TYPE
A1	⊠	COLUMBIA LIGHTING	JT824-332G-FSA12 -3EB8-120	2x4 RECESSED TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A4	▨	COLUMBIA LIGHTING	JT824-332G-FSPC4 -3EB8-120	SAME AS TYPE A1 EXCEPT WITH 3/4x3/4x1/2 SILVER STYRENE	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A3	☰	LIGHTOLIER	CFH2GPF332	2x4 RECESSED TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A5	⊠	COLUMBIA LIGHTING	SM24-332-FSA12 -3EB8-120	2x4 SURFACE TROFFER WITH HIGH FREQUENCY BALLAST	1	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8
A6	⊠	COLUMBIA LIGHTING	JT824-332G-FSPC4 -3EB8-120	SAME AS TYPE A4 EXCEPT 2x2	1	120	X	–	–	–	3	17	54	SYLVANIA F017/741 T8
B1	◩	COLUMBIA LIGHTING	JT824-332G-FSA12 -3EB8-120-EL	SAME AS TYPE A1 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8 / 90min BATTERY BACKUP
B4	◩	COLUMBIA LIGHTING	JT824-332G-FSPC4 -3EB8-120-EL	SAME AS TYPE A4 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	32	96	SYLVANIA F032/741 T8 / 90min BATTERY BACKUP
B6	■	COLUMBIA LIGHTING	JT824-332G-FSPC4 -3EB8-120	SAME AS TYPE A6 EXCEPT WITH EMERGENCY BATTERY PACK	1,2	120	X	–	–	–	3	17	54	SYLVANIA F017/741 T8 / 90min BATTERY BACKUP
C1	♀	JANMAR LIGHTING	1955E-2x32DTA-APAR38D-AB-LMP	SCONCE UP/DOWN CYLINDER BRONZE FIXTURE	1	120	–	–	–	X	2	32	68	LABELED WET LOCATION. CL OF PILASTER MOUNT 7'-0" AFF. LAMPS INCLUDED
C2	♀	GARDCO LIGHTING	600C-D-100HPS-120-360-DT-WP-RD	OUTDOOR FIXTURE WITH DIAMOND FACIA PLATE	1	120	–	–	–	X	1	100	116	LABELED WET LOCATION.
E1	▭	W.F. HARRIS LIGHTING	1200WP-*-242PLT -HPF-EM-PH	EXTERIOR WALL PACK ABOVE DOOR	1	120	–	–	–	X	2	42	84	LABELED WET LOCATION WITH 90min BATTERY- PHOTOCELL CONTROL
F4	▭	COLUMBIA LIGHTING	CS4-232-EB8-120	4'-0" STAIGHTLINER UTILITY CHANNEL	1	120	–	–	X	–	2	32	65	SYLVANIA F032/741 T8
G4	◎	OWNER FURNISHED	OWNER FURNISHED	PENDANT LIGHT	1	120	–	–	X	–	1	23	23	CENTER OF BOOTHS 6'-0" AFF TO B.O.F. OVER TABLES 5'-0" AFF TO B.O.F.
K1	▷	LIGHTOLIER	9233BKCC	TRACK HEAD OR MONOPOINT	1	120	–	X	–	–	1	75	75	SYLVANIA 75PAR30/CAP/FL
L1	○	ARCHITEKTUR	CFT832EB	8" WALL WASH DOWNLIGHT	1	120	X	–	–	–	1	32	32	PROVIDE SHATTER-PROOF SHIELDS ABOVE SERVING COUNTER
LP-22	▭	LIGHTOLIER	LP-22	3'-0" WALL MOUNT	1	120	–	–	–	X	2	25	48	SYLVANIA F025/741 MOUNT @ 7'-0" CL OF FIXTURE
X1	⊗	PRESCOLITE	XT3R-EN-W	LED EXIT SIGN WITH 90MIN. BATTERY PACK	1,2	120	–	X	–	–	INCL.	L.E.D.	2.2	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X2	⇆	PRESCOLITE	EDS2	EMERGENCY LIGHT WITH 90MIN. BATTERY PACK SURFACE MOUNTED	1,2	120	–	X	–	–	INCL.	L.E.D.	12	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
X3	▽REM	PRESCOLITE	EDS2- REMOTE HEAD	REMOTE HEAD WITH 90MIN. BATTERY PACK EXTERIOR MOUNTED	1,2	120	–	X	–	–	INCL.	L.E.D.	6	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
T5	▬	LIGHTOLIER	83W6BK/83B70SEBK	TRACK MOUNTED	1	120	–	X	–	–	INCL.	L.E.D.	70	SEE ARCH. PLANS FOR MOUNTING LOCATIONS. SYLV# MC70T6/U/G12/930PB

1. PROVIDE LAMP WITH FIXTURE
2. MINIMUM FULL OUTPUT 90min. BATTERY BACK-UP ILLUMINATION.

SHEET KEYED NOTES

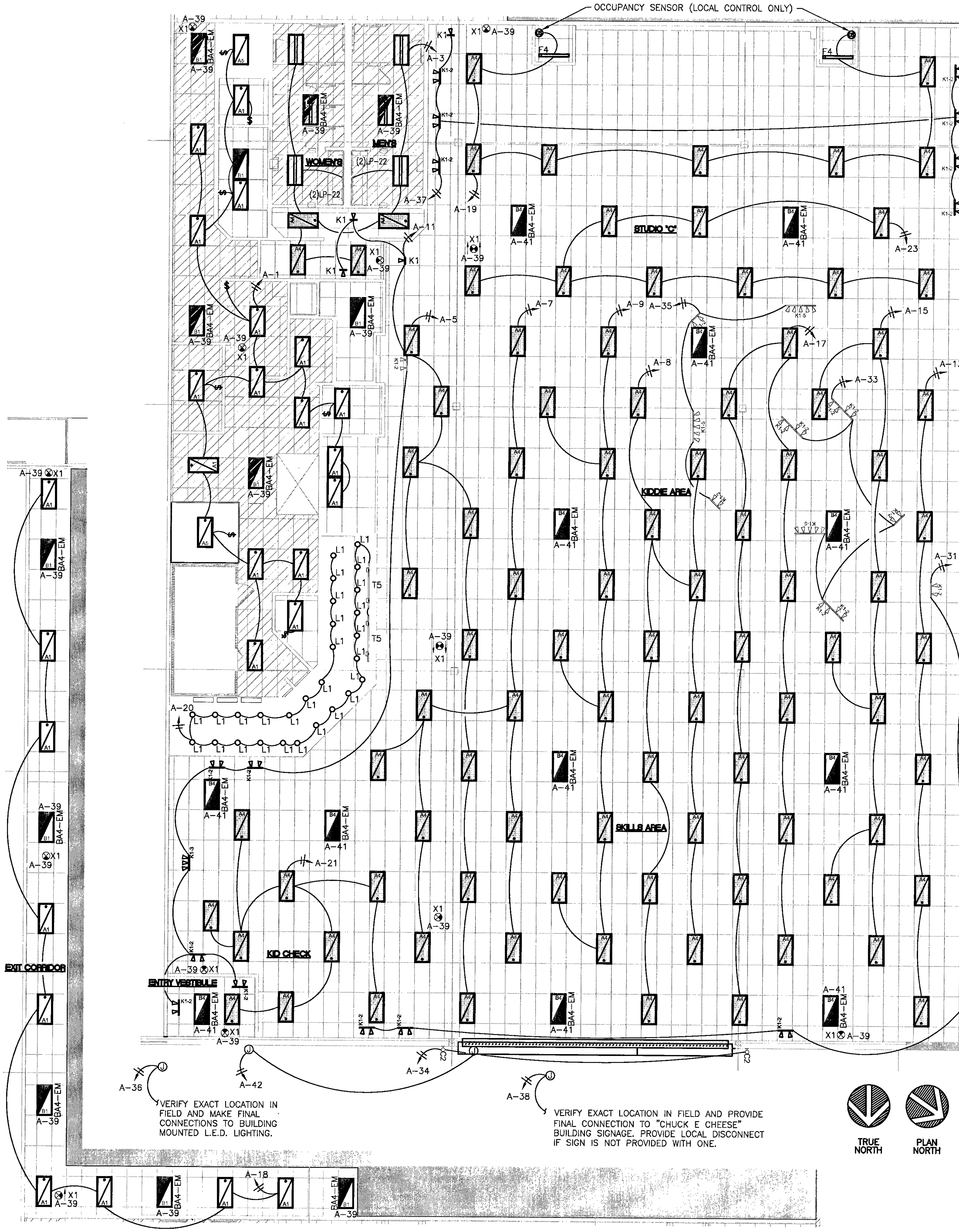
1. WP J-BOX AT EXTERIOR WALL MOUNTED AT 23"-0" AFF. FOR CONNECTION TO ILLUMINATED SIGNAGE. VERIFY EXACT LOCATION WITH SIGNAGE SUPPLIER.
2. 120/24V LED LIGHT TRANSFORMER IN WP ENCLOSURE FURNISHED BY SIGN VENDOR, INSTALLED BY E.C. PROVIDE WP SWITCH TO TRANSFORMER PER N.E.C.. FIELD VERIFY ACTUAL LOCATION AND WIRING REQUIREMENTS WITH SIGN VENDOR PRIOR TO INSTALLATION AND CONSTRUCTION MANAGER ROUTE CIRCUIT THROUGH CONTACTOR.
3. J-BOX AT 11'4" A.F.F. ON INSIDE WALL WITH 5' WHIP TO OUTSIDE FOR CONNECTION TO AWNING LIGHTS. VERIFY EXACT LOCATION WITH SUPPLIER.
4. CIRCUIT SHALL BE CONTROLLED THRU CONTACTOR LC3 (ASCO #917 SERIES, NUMBER PER PANEL A SCHEDULE ON SHEET E5.0 PLUS 2 SPARES) ACTIVATED BY PHOTOCELL MOUNTED ON ROOF (FACING NORTH) AND DEACTIVATED BY TIME CLOCK (7-DAY/24HOUR/ SKIP-A-DAY FEATURES). SEE DETAIL 1 ON SHEET E6.0 FOR FURTHER INFORMATION.
5. NOT USED.
6. INSTALL FIXTURES AND SWITCH (PROVIDED BY OTHERS) IN WALK-IN BOX. THIS CONTRACTOR SHALL FURNISH AND INSTALL LAMPS AS REQUIRED.
7. E.C. TO PROVIDE EMERGENCY/EXIT/NL CIRCUIT AS FOLLOWS:
   KITCHEN AND RESTROOM AREAS A-39.
   SKILLS AND DINNING AREAS A-41.
   CONNECT A HEAD OF LOCAL SWITCHING.
8. LOCATION OF NEW LIGHTING CONTROLS IN COMPLIANCE WITH ENERGY CODE.
9. ALL WIRING AND TRANSFORMER POWER IS TO BE RUN UP IN WALL TO EXTERIOR LED LIGHTS.

CONTRACTOR'S NOTES

1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE, TO THE TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.
2. ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.

SHEET GENERAL NOTES

1. ONLY EQUIPMENT EQUIPPED WITH 'FACTORY-INSTALLED' CORDS SHALL BE PERMITTED TO BE CORD-AND-PLUG CONNECTED (NEC 400.7(A).
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
4. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
5. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
6. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
7. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
8. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
9. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER A.D.A. REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
10. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
11. ALL WIRES SHALL BE COPPER ONLY, THHN OR N.E.C. APPROVED EQUAL OR BETTER. ALL WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED ON N.E.C. 110-14C AND TABLE 310-16.
12. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER-PROOF TYPE CONCEALED FROM VIEW.
13. ALL WIRING PER NEC-518, (ASSEMBLY).
14. ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
15. CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.
16. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
17. OUTLETS, SWITCHES, AND PLATES SHALL BE: A) STAINLESS AT FRP. B) GREY AT MARLITE. SAFETY RECEPTACLES, LEVITON 5262-SGG RECEPTACLES, 80703 EG PLATE. C) WHITE AT ALL OTHER AREAS. D) CEILING OUTLETS SHALL BE PAINTED TO MATCH CEILING COLOR.



VERIFY EXACT LOCATION IN FIELD AND MAKE FINAL CONNECTIONS TO BUILDING MOUNTED L.E.D. LIGHTING.

VERIFY EXACT LOCATION IN FIELD AND PROVIDE FINAL CONNECTION TO "CHUCK E CHEESE" BUILDING SIGNAGE. PROVIDE LOCAL DISCONNECT IF SIGN IS NOT PROVIDED WITH ONE.

1 FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

REGISTRATION SEAL

FREDERICK J. GOGLIA
REGISTERED ARCHITECT
No. 2598
ARKANSAS

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

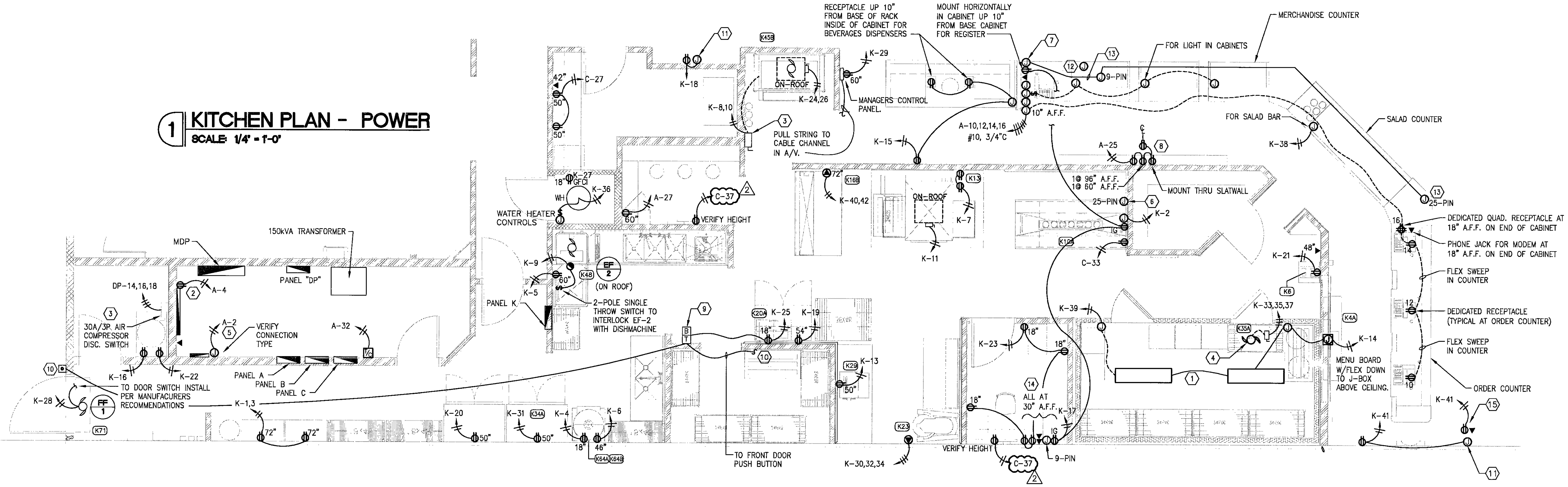
REV	DATE	DESCRIPTION	NAME
2	06/24/10	OWNER COMMENTS	DN

PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE:
04/07/10

FLOOR PLAN - LIGHTING

E1.0

1 KITCHEN PLAN - POWER
SCALE: 1/4" = 1'-0"



KITCHEN EQUIPMENT SCHEDULE NOTES

1. ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL EQUIPMENT CONNECTION SIZE AND LOCATION.
2. SEE MASTER EQUIPMENT SCHEDULE.
3. VERIFY LEFT OR RIGHT RECEPTACLE LOCATION ON S.S. CUT TABLE.

ELECTRICAL KITCHEN EQUIPMENT FIXTURE SCHEDULE

ITEM	QTY	EQUIPMENT	CATALOG NO.	VOLTAGE	WATTAGE	BKR. SIZE	WIRE SIZE	SYM	NEMA PLUG	MOUNTING HEIGHT
K6	1	COFFEE BREWER	N/A	120	2,040w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	24" A.F.F.
K10A,B	1	REFRIGERATED PIZZA PREP TABLE	N/A	120	1,200w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	72" A.F.F.
K13	1	DOUBLE-STACK PIZZA OVEN	N/A	120	600w (EACH)	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	18" & 46" A.F.F.
K16B	1	S.S. CUT TABLE	N/A	208	1,394w (EACH)	20/2	2#12, 1#12G IN 3/4"C	▼	5-20P	72" & 46" A.F.F.
K20A	1	REFRIGERATED COUNTER	N/A	120	792w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	18" & 54" A.F.F.
K23	1	DOUGH MIXER	N/A	208	3,098w	20/3	3#12, 1#12G IN 3/4"C	▼	L15-20P	VERIFY
K29	1	DOUGH ROLLER	N/A	120	1,500w	20/1	2#12, 1#12G IN 3/4"C	⏀	6-50P	50" A.F.F.
K34A	1	DOUBLE-DOOR REACH-IN FREEZER	N/A	120	1,584w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	50" A.F.F.
K34B	1	SINGLE-DOOR REACH-IN FREEZER	N/A	120	1,248w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	50" A.F.F.
K35A	1	WALK-IN COOLER/LIGHTS/EVAPORATOR	N/A	120	1,200w	20/1	2#12, 1#12G IN 3/4"C	Ⓙ	JBOX	VERIFY
K35A.1	1	WALK-IN COOLER CONDENSER	N/A	208	3,873w	20/3	3#12, 1#12G IN 3/4"C	▭	DISC.	VERIFY
K45B	1	ICE MACHINE	N/A	208	5,845w	60/1	2#8, 1#10G IN 3/4"C	▭	DISC.	VERIFY
K48	1	DISHWASHER SANITIZER	N/A	120	1,680w	20/1	2#12, 1#12G IN 3/4"C	⏀	L5-20P	60" A.F.F.
K64A	1	COTTON CANDY MACHINE	N/A	120	3,000w	30/1	2#10, 1#10G IN 3/4"C	▼	5-30P	36" A.F.F.
K64B	1	CANDY HOOD AND LIGHTS	N/A	120	600w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	110" A.F.F.
K71	1	AIR CURTAIN	N/A	120	1,920w	20/1	2#12, 1#12G IN 3/4"C	⏀	5-20P	90" A.F.F.

SYMBOLS + ABBREVIATIONS LEGEND

⏀	SINGLE CONVENIENCE OUTLET (SCO)	SP	SWITCH AND PILOT LIGHT
⏀	DOUBLE CONVENIENCE OUTLET (DCO)	EL	ELEVATION A.F.F.
Ⓙ	JUNCTION BOX (JB)	A	AMPERES
⊕	QUADRUPLEX	V	VOLTS
⌀	MOTOR OUTLET	W	WATTS
Ⓢ	SOLENOID OR CONTROL CIRCUIT	PH	PHASE
⏀	SINGLE POWER OUTLET AS NOTED	AFF	ABOVE FINISHED FLOOR
⏀	CONVENIENCE OUTLET, 2-CIRCUIT, 120/208V-1PH, 3 WIRE (OR AS NOTED)	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
⊙	FLOOR OUTLET	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
-○-	LIGHT INDICATION	DFA	DOWN FROM ABOVE
Ⓜ	CONDUIT AS NOTED	SU	STUB UP AFF
▼	TELEPHONE OUTLET	WP	WEATHER PROOF
▬	PANELBOARD	BFC	BELOW FINISHED CEILING
▭	DISCONNECT SWITCH	L	STROBES
⊡	CEILING MOUNTED RECEPTACLE	▷H	COMBO HORN/STROBE
SM	MOTOR SWITCH	FACP	FIRE ALARM CONTROL PANEL
⊡	FLOOR RECEPTACLE "POKE-THRU"	F	PULL STATION
—	CONCEALED CONDUIT (DASHED = UNDERFLOOR)	FAAP	FIRE ALARM ANNUNCIATOR PANEL
⫽	WIRING "HOME-RUN"	KP	SECURITY KEYPAD (BY OTHERS)

SHEET KEYED NOTES

① E.C. TO FIELD PROVIDE CONDUCTORS, CONDUIT, BOXES AND FINAL CONNECTIONS FOR COOLER, TEMPERATURE CONTROLS , LIQUID LINE SOLENOID VALVES, DEFROST TIME CLOCK, LIGHT FIXTURES AND SWITCHES FURNISHED BY COOLER SUPPLIER. REFER TO KITCHEN SUPPLIER FOR FLOOR RECEPTACLE LOCATIONS.

② GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL 2'X4'X3/4" PLYWOOD FOR TELEPHONE BOARD. INSTALLATION SHALL BE PER TELEPHONE COMPANY SPECIFICATIONS AND REQUIREMENTS. INSTALL AS CLOSE TO CEILING AS POSSIBLE. COORDINATE TELEPHONE POINT OF CONNECTION TO THIS TELEPHONE BOARD. PROVIDE CONNECTION BLOCK AS REQUIRED PER TELEPHONE CO. FOR NINE TEL. LINES.

③ PROVIDE DISCONNECT SWITCH TO EQUIPMENT PER MANUFACTURER SPECIFICATIONS.

④ 30-AMP, 240V, 3-PHASE FUSED DISCONNECT MOUNTED IN NEMA-3R ENCLOSURE ON WALK-IN COOLER FOR CONDENSER UNIT.

⑤ AT 8'-0" AFF FOR SECURITY SYSTEM. COORDINATE WITH OWNER AND INSTALLER.

⑥ RUN OWNER SUPPLIED KITCHEN PRINTER CABLE ABOVE CEILING FROM 30" AFF CENTER OF MANAGERS OFFICE DESK (9-PIN END) TO 6' AFF @ PIZZA MAKE TABLE (25-PIN END) COVER WITH SPLIT PLATE @ BOTH ENDS

⑦ PULL OWNER PROVIDED RJ-45 POS CABLE FROM END OF COUNTER TO ABOVE CEILING AND DOWN TO 30" AFF AT MANAGER OFFICE DESK.

⑧ REFER 6/A5.0 FOR HORIZONTAL MOUNTING LOCATIONS OF DUPLEX AT SLATWALL.

⑨ LOW-VOLTAGE TRANSFORMER AND BELL WITH TWO DIFFERENT TONES FOR FRONT AND BACK DELIVERIES. MOUNT AT +96" AFF ON WALL. MAKE ALL FINAL POWER AND CONTROL WIRING CONNECTIONS.

⑩ DOOR BELL PUSHBUTTON (EDWARDS #690) MOUNTED AT 48" AFF. TWO EACH WITH FACEPLATE (EDWARDS #149-1).

⑪ PROVIDE JUNCTION BOX W/WHIP TO MARKETING LIGHT BOX & CONVENIENCE OUTLET. (ABOVE CEILING W/FLEX DOWN TO MARKETING BOX)

⑫ PULL OWNER PROVIDED RJ-45 POS CABLE FROM J-BOX AT ORDER COUNTER TO J-BOX AT MERCHANDISE COUNTER.

⑬ MODEM CABLE WITH 9-PIN END TO MERCHANDISE COUNTER AND 25-PIN END TO ORDER COUNTER IN 2" CONDUIT FOR THE ENTIRE RUN

⑭ OWNER FURNISHED SECURITY KEYPAD ALARM SYSTEM. FIELD VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER.

⑮ SECURITY WALL OUTLET AND DATA OUTLET, FLUSH MOUNT 14" ABOVE MARKETING LIGHT BOX.

CONTRACTOR'S NOTES

1. WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE, TO THE TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.
2. ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.

2

SHEET GENERAL NOTES

1. PROVIDE 20A DUPLEX RECEPTACLE FOR ALL DEDICATED RECEPTACLES.
2. PROVIDE GFCI PROTECTION FOR ALL 125V, 15-AMP AND 20-AMP RECEPTACLES IN KITCHEN.
3. ONLY EQUIPMENT EQUIPPED WITH 'FACTORY-INSTALLED' CORDS SHALL BE PERMITTED TO BE CORD-AND-PLUG CONNECTED (NEC 400.7(A).
4. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
5. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
6. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
7. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
8. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
9. PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED FOR PROVIDING TELEPHONE SERVICE.
10. ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CASH REGISTER CONDUIT, WIRING AND CONNECTIONS. ALL REGISTER RECEPTACLES SHALL BE I.G. TYPE.
12. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
13. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER ADA REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
14. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
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16. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER-PROOF TYPE CONCEALED FROM VIEW.
17. ALL WIRING PER N.E.C.-518, (ASSEMBLY).
18. ELECTRICIAN TO VERIFY EXISTING UNDER-FLOOR UTILITIES PRIOR TO ANY PENETRATIONS. PROVIDE ADEQUATE SPACE FOR ROUTING CONDUIT(S).
19. FLOOR RECEPTACLES SHALL BE FLUSH MOUNTED, HUBBELL #B-2527 WITH BRASS COVER #S-3925 AND CARPET RING #S-3082. VERIFY WITH PROJECT MANAGER ANY FINAL CHANGE TO GAME LAYOUT PRIOR TO INSTALLING. USE 3/4" CONDUIT UNDER-SLAB FOR ALL FLOOR OUTLETS. SEE DETAIL, THIS SHEET.
20. ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
21. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMMUNICATION AND WIRING OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.
22. CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

REV	DATE	DESCRIPTION	NAME
1	05/27/10	OWNER COMMENTS	SAH
2	06/24/10	OWNER COMMENTS	DN

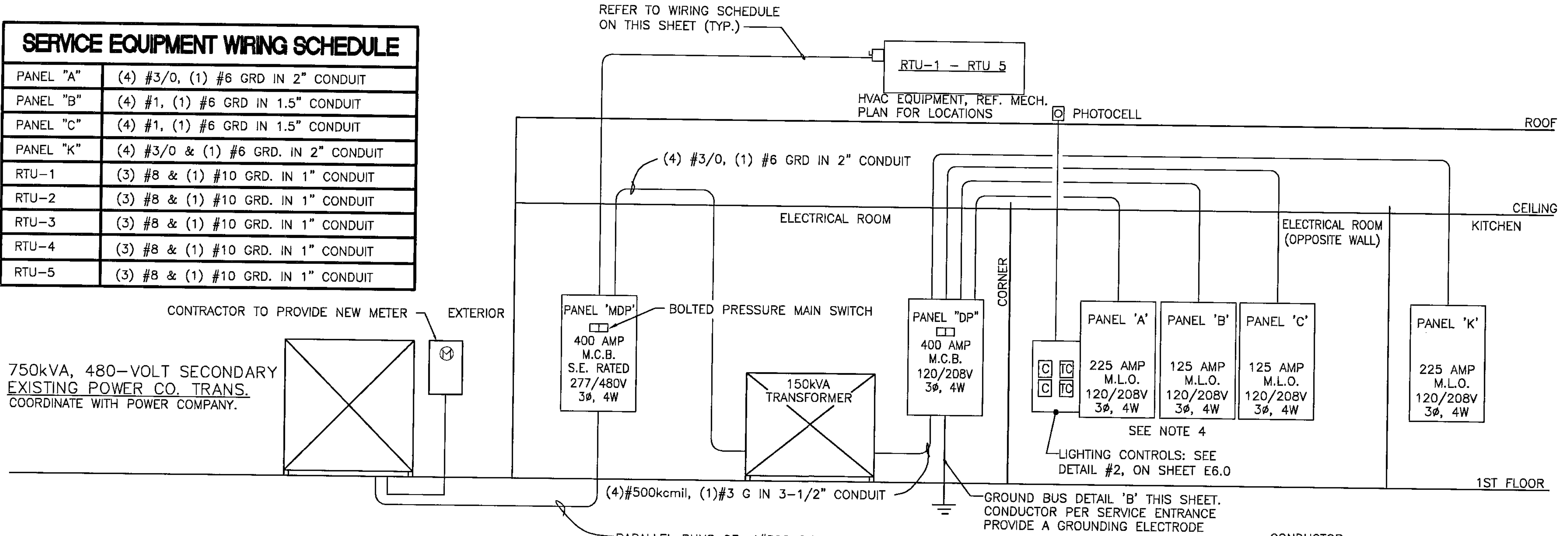
PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH
ISSUE DATE: 04/07/10

KITCHEN PLAN - POWER

E3.0

SERVICE EQUIPMENT WIRING SCHEDULE

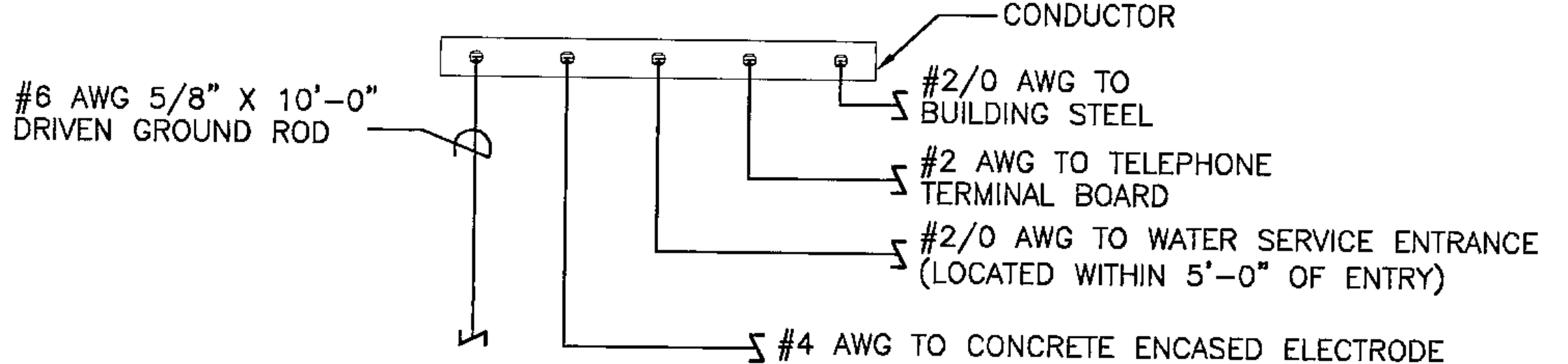
PANEL "A"	(4) #3/0, (1) #6 GRD IN 2" CONDUIT
PANEL "B"	(4) #1, (1) #6 GRD IN 1.5" CONDUIT
PANEL "C"	(4) #1, (1) #6 GRD IN 1.5" CONDUIT
PANEL "K"	(4) #3/0 & (1) #6 GRD. IN 2" CONDUIT
RTU-1	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-2	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-3	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-4	(3) #8 & (1) #10 GRD. IN 1" CONDUIT
RTU-5	(3) #8 & (1) #10 GRD. IN 1" CONDUIT


REFER TO WIRING SCHEDULE ON THIS SHEET (TYP.)
RTU-1 - RTU 5
HVAC EQUIPMENT, REF. MECH. PLAN FOR LOCATIONS
PHOTOCELL
ROOF
(4) #3/0, (1) #6 GRD IN 2" CONDUIT
ELECTRICAL ROOM
CEILING
ELECTRICAL ROOM (OPPOSITE WALL)
KITCHEN
CORNER
CONTRACTOR TO PROVIDE NEW METER
EXTERIOR
750kVA, 480-VOLT SECONDARY EXISTING POWER CO. TRANS. COORDINATE WITH POWER COMPANY.
PANEL 'MDP' 400 AMP M.C.B. S.E. RATED 277/480V 3Ø, 4W
BOLTED PRESSURE MAIN SWITCH
150kVA TRANSFORMER
PANEL "DP" 400 AMP M.C.B. 120/208V 3Ø, 4W
C TC
C TC
PANEL 'A' 225 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'B' 125 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'C' 125 AMP M.L.O. 120/208V 3Ø, 4W
PANEL 'K' 225 AMP M.L.O. 120/208V 3Ø, 4W
SEE NOTE 4
LIGHTING CONTROLS: SEE DETAIL #2, ON SHEET E6.0
1ST FLOOR
(4)#500kcmil, (1)#3 G IN 3-1/2" CONDUIT
PARALLEL RUNS OF: 4#500 CU. IN 3-1/2" CONDUIT
GROUND BUS DETAIL 'B' THIS SHEET. CONDUCTOR PER SERVICE ENTRANCE PROVIDE A GROUNDING ELECTRODE

ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION OF POWER CO. METERING WITH POWER COMPANY PRIOR TO INSTALLATION. ELECTRICAL CONTRACTOR TO COMPLY WITH LOCAL POWER COMPANY'S ELECTRICAL SERVICE ENTRANCE REQUIREMENTS. SEE WEBSITE FOR FURTHER INFORMATION.

A BUILDING'S ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.


CONDUCTOR
#6 AWG 5/8" X 10'-0" DRIVEN GROUND ROD
#2/0 AWG TO BUILDING STEEL
#2 AWG TO TELEPHONE TERMINAL BOARD
#2/0 AWG TO WATER SERVICE ENTRANCE (LOCATED WITHIN 5'-0" OF ENTRY)
#4 AWG TO CONCRETE ENCASED ELECTRODE (FOUNDATION STEEL) (PER 250-50 OF THE NEC)

B SERVICE ENTRANCE GROUND BUS DETAIL

SCALE: N.T.S.

SHEET GENERAL NOTES

1. ALL BREAKERS SHALL BE THE BOLT-ON TYPE.
2. BRANCH BREAKERS OF 2P AND 3P CONFIGURATION SHALL HAVE A COMMON TRIP.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.
4. ALL CIRCUIT BREAKERS USED TO SWITCH GAMES SHALL BE APPROVED FOR THE PURPOSE AND MARKED "SWD".
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. EACH PANEL SHALL BE PROVIDED WITH AN ACCURATE TYPEWRITTEN CIRCUIT DIRECTORY.
6. INCOMING SERVICE SHALL BE 277/480V, 3-PHASE, 4-WIRE. ANY DEVIATIONS TO THIS SERVICE TYPE SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING.
7. ALL ELECTRICAL MATERIAL USED ON THIS PROJECT SHALL BE "UL" LISTED AND LABELED.
8. ALL CONDUIT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
9. THE MINIMUM SIZE OF WIRE SHALL BE #12 AWG THWN COPPER. WIRES INSTALLED UNDERGROUND OR OUTDOORS SHALL BE THW.
10. ALL CONDUITS PENETRATING THE COOLER BOX SHALL BE SEALED IN COMPLIANCE WITH NEC 300-7.
11. THE CONTRACTOR SHALL ARRANGE WITH THE ELECTRIC AND TELEPHONE UTILITY CO. FOR INCOMING SERVICE REQUIRMENTS AND SHALL INCLUDE ALL COSTS IN BASE BID.
12. ALL PANELS SHALL BE PROVIDED WITH A KEY LOCK AND LATCH. EACH PANEL SHALL HAVE TWO KEYS WITH ALL PANELS KEYED ALIKE.
13. RACEWAYS SHALL BE ANY OF THE FOLLOWING MATERIALS, INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES:
    - 13.1. TYPE MC CABLE WHERE PERMITED IN NEC 334-3 AND INSTALLED PER 334-10.
    - 13.2. METALLIC RACEWAYS: GREENFIELD, EMT, IMC, HEAVY-WALL CONDUIT.
    - 13.3. RIGID NON-METALLIC CONDUIT (COMPLY WITH NEC 347) (USE SHALL BE ONLY FOR OUTDOOR USE OR USE IN SLABS).

* ALL RACEWAYS SHALL HAVE A FULL SIZE GROUNDING CONDUCTOR INSTALLED. ROMEX, NONMETALLIC TUBING, AND BX CABLING SHALL NOT BE USED.

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27. ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
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PANELBOARD DESIGNATION PANEL "MDP"

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
277/480 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 400 AMPERE BUS 400 AMPERE MAIN MCB
TOP FED ___ BOTTOM FED X FLUSH MTD ___ SURFACE MTD X

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	RTU-1	7861	H	8	40	3	19573			3	50	8	H	11712	RTU-2	2
3		7861						19573						11712		4
5		7861							19573					11712		6
7	RTU-3	9614	H	8	45	3	19228			3	45	8	H	9614	RTU-4	8
9		9614						19228						9614		10
11		9614							19228					9614		12
13	RTU-5	9614	H	8	45	3	62249			3	200	3/0	–	52635	150kVA TRANSFORMER	14
15		9614						59534						49920		16
17		9614							63095					53481		18
19	SPACE						--								SPACE	20
21	SPACE							--							SPACE	22
23	SPACE								--						SPACE	24
							101050	98335	101896	SUB TOTALS						

H = H.V.A.C.

CONNECTED LOAD 301,281
DEMAND LOAD 280,033

PANELBOARD DESIGNATION PANEL "DP"

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 400 AMPERE BUS 400 AMPERE MAIN MCB
TOP FED ___ BOTTOM FED X FLUSH MTD ___ SURFACE MTD X

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	PANEL B	10720		1	125	3	24303			3	200	3/0		13583	PANEL A	2
3		9600						22499						12899		4
5		12100							25741					13641		6
7	PANEL C	7660		1	125	3	25732			3	200	3/0		18072	PANEL K	8
9		8660						24821						16161		10
11		9200							25140					15940		12
13	SPACE						2600			3	30	8	M	2600	AIR COMPRESSOR	14
15	SPACE							2600						2600		16
17	SPACE								2600					2600		18
19	SPACE						--								SPACE	20
21	SPACE							--							SPACE	22
23	SPACE								--						SPACE	24
							52635	49920	53481	SUB TOTALS						

CONNECTED LOAD 156,036
DEMAND LOAD 133,232

PANELBOARD DESIGNATION PANEL C

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 125 AMPERE BUS 125 AMPERE MAIN M.L.O.
TOP FED ___ BOTTOM FED X FLUSH MTD ___ SURFACE MTD X

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	RELAY CAB P	800	M	12	20	1	2000			1	20	12	M	1200	RELAY CAB P	2
3	RELAY CAB P	1000	M	12	20	1		2400		1	20	12	M	1400	RELAY CAB P	4
5	RELAY CAB P	1000	M	12	20	1			2400	1	20	12	M	1400	RELAY CAB P	6
7	RELAY CAB P	800	M	12	20	1	1600			1	20	12	M	800	RELAY CAB P	8
9	RELAY CAB P	1200	M	12	20	1		1600		1	20	12	R	400	NEW GAMES	10
11	RELAY CAB P	1400	M	12	20	1			1800	1	20	12	R	400	NEW GAMES	12
13	NEW GAMES	400	R	12	20	1	1200			1	20	12	R	800	NEW GAMES	14
15	NEW GAMES	400	R	12	20	1		800		1	20	12	R	400	NEW GAMES	16
17	NEW GAMES	1200	R	12	20	1			2400	1	20	12	R	1200	NEW GAMES	18
19	NEW GAMES	400	R	12	20	1	1600			1	20	12	R	1200	NEW GAMES	20
21	NEW GAMES	800	R	12	20	1		980		1	20	12	R	180	FLOOR RECEPTACLE	22
23	NEW GAMES	1200	R	12	20	1			1600	1	20	12	R	400	GAMES	24
25	SPARE	--	–	–	20	1	180			1	20	12	R	180	GAMES	26
27	TECH RECEPTACLES	360	R	12	20	1		1960		1	20	12	M	1600	HAND DRYER	28
29	SPARE	--	–	–	20	1			900	1	20	12	R	900	RTU RECEPTACLES	30
31	SPARE	--	–	–	20	1	180			1	20	12	R	180	GENERAL RECEPTACLE	32
33	GENERAL RECEPTACLES	720	R	12	20	1		920		1	20	12	M	200	SECURITY MONITOR	34
35	ELECTRIC FAUCET VALVE	100	M	12	20	1			100	1	–	–	–	--	SPACE	36
37	OFFICE/EMPLOY. MONITORS	900	M	12	20	1	900			1	–	–	–	--	SPACE	38
39	SPARE	--	–	–	20	1		--		1	–	–	–	--	SPACE	40
41	SPARE	--	–	–	20	1			--	1	–	–	–	--	SPACE	42
							7660	8660	9200	SUB TOTALS						

TOTAL DEMAND LOAD 24,660
TOTAL DEMAND AMPERES 50.9
CONNECTED LOAD 25,520

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
H = H.V.A.C.
K = KITCHEN

PANELBOARD DESIGNATION PANEL K

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 225 AMPERE BUS 225 AMPERE MAIN M.L.O.
TOP FED ___ BOTTOM FED X FLUSH MTD ___ SURFACE MTD X

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	BAG-N-BOX	850	K	12	20	1	2050			1	20	12	K	1200	REF. CNTR. PIZZ #10A	2
3	BAG-N-BOX	850	K	12	20	1		3850		1	20	12	K	3000	COTTON CANDY #64A	4
5	DISHWASHER 48	1580	M	12	20	1			3580	1	20	12	K	2000	COTTON CANDY #64B	6
7	PIZZA OVEN #13 (2)	1200	K	12	20	1	4122			2	20	12	K	2922	ICE DISPENSER #45B	8
9	EF-2	667	M	12	20	1		3589						2922		10
11	EF-1	1840	M	12	20	1			1840	1	20	–	–	--	SPARE	12
13	DOUGH ROLLER #29	1500	K	12	20	1	2000			1	20	12	L	500	MENU BOARD	14
15	DRINK TOWER	1000	K	12	20	1		2200		1	20	12	M	1200	BLOW OFF VALVE TIMER	16
17	MANAGERS RECEPTACLE	720	R	12	20	1			1720	1	20	12	L	1000	MENU BOARD	18
19	REC ABOVE SAND. TABLE	180	R	12	20	1	1764			1	20	12	K	1584	DBL FREEZER	20
21	COFFEE BREWER	800	K	12	20	1		1520		1	20	12	M	720	AIR DRYER	22
23	MANAGER TABLE	1400	R	12	20	1			4198	2	20	12	K	2798	ICE CONDENSER #45A	24
25	SAND FRIG TABLE #20A	1032	K	12	20	1	3830							2798		26
27	UTILITY ROOM REC	180	R	12	20	1		980		1	20	12	M	800	FLY FAN FF-1	28
29	MANAGERS CONTROLLER	180	M	12	20	1			1212	3	20	12	K	1032	FOOD MIXER	30
31	DOUBLE FREEZER #34A	1584	K	12	20	1	2616							1032		32
33	WALK IN CLR EVAP LTS	1290	K	12	20	3		2322						1032		34
35		1290							1490	1	30	10	M	200	GAS WATER HEATER	36
37		1290					1690			1	30	10	K	400	SALAD BAR	38
39	WALK IN CLR EVAP LTS	1000	K	12	20	1		1700		2	20	10	K	700	PIZZA CUT TABLE #16B	40
41	MENU SPECIAL	1200	L	12	20	1			1900					700		42
							18072	16161	15940	SUB TOTALS						

TOTAL DEMAND LOAD 37,616
TOTAL DEMAND AMPERES 104.5
CONNECTED LOAD 50,173

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
K = KITCHEN

PANELBOARD DESIGNATION PANEL A

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 225 AMPERE BUS 225 AMPERE MAIN M.L.O.
TOP FED X BOTTOM FED ___ FLUSH MTD X SURFACE MTD ___

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	KITCHEN LIGHTING	1920	L	10	30	1	2520			1	20	12	M	600	SECURITY SYSTEM	2
3	RR LIGHTING	960	L	12	20	1		1560		1	20	12	M	600	TELEPHONE	4
5	GENERAL LIGHTING	864	L	12	20	1			1404	1	20	12	R	540	GENERAL RECEPTACLES	6
7	GENERAL WORK LIGHTING	960	L	12	20	1	2016			1	20	12	L	1056	GENERAL LIGHTING	8
9	GENERAL WORK LIGHTING	864	L	12	20	1		1764		1	20	12	R	900	CASH REGISTER	10
11	GENERAL LIGHTING	1350	L	12	20	1			2250	1	20	12	R	900	CASH REGISTER	12
13	GENERAL LIGHTING	576	L	12	20	1	1476			1	20	12	R	900	CASH REGISTER	14
15	GENERAL LIGHTING	864	L	12	20	1		1764		1	20	12	R	900	CASH REGISTER	16
17	GENERAL LIGHTING	1152	L	12	20	1			2016	1	20	12	L	864	CORRIDOR LIGHTING	18
19	STUDIO C LIGHTING	802	L	12	20	1	1838			1	20	12	L	1036	COUNTER LIGHTING	20
21	ENTRY LIGHTING	864	L	12	20	1		2169		2	20	12	L	1305	PARKING LOT LIGHTING	22
23	GENERAL LIGHTING	864	L	12	20	1			2169					1305		24
25	PRIZE BOARD	720	L	12	20	1	1808			2	20	12	L	1088	PARKING LOT LIGHTING	26
27	TV/VCR	1092	M	12	20	1		2180						1088		28
29	SPARE	--	–	–	20	1			1200	1	20	12	L	1200	SIGN LIGHTING	30
31	TRACK LIGHTING	600	L	12	20	1	1600			1	20	12	M	1000	TIME CLK AND CONTACT	32
33	TRACK LIGHTING	1425	L	12	20	1		1657		1	20	12	L	232	EXTERIOR BUILDING LTG	34
35	TRACK LIGHTING	1050	L	12	20	1			2250	1	20	12	L	1200	L.E.D. LIGHTING	36
37	TRACK LIGHTING	1125	L	12	20	1	2325			1	20	12	L	1200	SIGNAGE	38
39	EM LIGHTING	1085	L	12	20	1		1805		1	20	12	L	720	EXTER. BLDG LTG.(FUTURE)	40
41	EM/SECURITY LIGHTING	1152	L	12	20	1			2352	1	20	12	L	1200	AWNING	42
							13583	12899	13641	SUB TOTALS						

TOTAL DEMAND LOAD 48,296
TOTAL DEMAND AMPERES 134.2
CONNECTED LOAD 40,123

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS
H = H.V.A.C.
K = KITCHEN

PANELBOARD DESIGNATION PANEL B

NEW INSTALL X EXIST LOCATION ___ RELOCATED EXIST ___
120/208 VOLTS 3 PHASE 4 WIRE, SOLID NEUTRAL 125 AMPERE BUS 125 AMPERE MAIN M.L.O.
TOP FED ___ BOTTOM FED X FLUSH MTD ___ SURFACE MTD X

CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	C	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #
1	GAMES WALL	800	R	12	20	1	1600			1	20	12	R	800	GAMES WALL	2
3	GAMES WALL	800	R	12	20	1		1000		1	20	12	M	200	TOKEN MACHINE	4
5	GAMES WALL	800	R	12	20	1			1600	1	20	12	R	800	GAMES WALL	6
7	GAMES WALL	800	R	12	20	1	2000			1	20	12	R	1200	GAMES WALL	8
9	GAMES WALL	1200	R	12	20	1		2000		1	20	12	R	800	GAMES WALL	10
11	GAMES	400	R	12	20	1			1700	1	20	12	K	1300	ICE CREAM MACHINE	12
13	GAMES	400	R	12	20	1	800			1	20	12	R	400	GAMES	14
15	GAMES	800	R	12	20	1		1200		1	20	12	R	400	GAMES	16
17	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	18
19	GAMES	800	R	12	20	1	1600			1	20	12	R	800	GAMES	20
21	TOKEN MACHINE	200	M	12	20	1		600		1	20	12	R	400	GAMES	22
23	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	24
25	GAMES	1200	R	12	20	1	2000			1	20	12	R	800	GAMES	26
27	GAMES	400	R	12	20	1		1200		1	20	12	R	800	GAMES	28
29	GAMES	1200	R	12	20	1			2000	1	20	12	R	800	GAMES	30
31	GAMES	800	R	12	20	1	1200			1	20	12	R	400	GAMES	32
33	GAMES	800	R	12	20	1		1600		1	20	12	R	800	GAMES	34
35	GAMES	800	R	12	20	1			1600	1	20	12	R	800	GAMES	36
37	SKY CRAWL	720	R	12	20	1	1520			1	20	12	R	800	GAMES	38
39	BLUE SCREEN CAM	1200	M	12	20	1		2000		1	20	12	R	800	GAMES	40
41	GAMES	800	R	12	20	1			2000	1	20	12	R	1200	FLOOR RECEPTACLE	42
							10720	9600	12100	SUB TOTALS						

TOTAL DEMAND LOAD 22,660
TOTAL DEMAND AMPERES 62.9
CONNECTED LOAD 32,420

L = LTG OR SIGNAGE
R = RECEPTACLE
M = MISCELLANEOUS

REGISTRATION SEAL

FREDERICK J. GOGLIA
ARCHITECT, NCARB, ISP
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

CHUCK E CHEESE'S
3001 COLLEGE AVE.
FAYETTEVILLE, ARKANSAS 72709
SUITE# 2 STORE# 312

PROJECT NO: 090899
DRAWN BY: KRC
CHECKED BY: SAH

REV	DATE	DESCRIPTION	NAME
1	05/27/10	OWNER COMMENTS	SAH
2	06/24/10	OWNER COMMENTS	DN

ISSUE DATE: 04/07/10

ELECTRICAL SCHEDULES AND RISERS

E5.0